

HISTORICAL



# U.S. COAST GUARD

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Commander  
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## LORAN MONITOR STATION

# FUCHU

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# General Information Book

1969

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## CHAPTER I

### GENERAL INFORMATION

#### A. GEOGRAPHY

Loran Monitor Station Fuchu, is situated some twenty-four miles west of Tokyo on Fuchu Air Station. Fuchu Air Station is the Headquarters for U. S. Forces Japan and Fifth Air Force, as well as the Far East Section of the Coast Guard.

#### B. TOPOGRAPHY

Fuchu is located in the center of the fertile Kanto plain. This fertile breadbasket of Northern Japan is bounded on the North and South by two mountain ranges. Both mountain ranges are primarily volcanic in nature with the northern range the larger of the two.

#### C. WEATHER

1. Four distinct seasons give Japan a very interesting climatic picture. Summer with its hot humid rains, which leads into an unusually violent typhoon season during late August and September. Typhoons usually are more severe along the Southern coast, catching Fuchu with heavy winds and rains.

2. Clear, crisp mornings mark the coming of autumn to Japan. Afternoons are moderately warm and turning to cool evenings.

3. The driest season, winter, turns autumn's moderate days into the cold mornings and evenings expected in a nordic climate. Northern Japan is roughly parallel with Northwestern United States. Winter is the best time of the year to view Mt. Fuji, one of the seven wonders of the world. A moderate amount of snow falls throughout the winter, with one or two bad storms in late January or February.

4. Spring - this is the most beautiful time of the year in Japan. Clear days and nights. Short sleeve weather that makes the country a photographers delight. Cherry blossoms are in abundance and a cherry blossom festival is a must for all visitors.

#### D. POPULATION, MILITARY AND CIVILIAN

Fuchu Air Station has between 1,500 and 2,000 military personnel (this includes tenant units). There are approximately 1,500 Japanese nationals working under the Status of Forces Agreement. This agreement is too lengthy to include in this information book, however it would behoove all to be familiar with subject agreement if they are to spend a tour of duty here.

## CHAPTER II

### OPERATIONS

#### A. AIDS TO NAVIGATION

1. The primary mission of LMS FUCHU is operating and maintaining Loran-C and Universal Timing Equipment to monitor and control the Master-Xray and Master-Yankee baselines of the Northwest Pacific Loran-C Navigation System. The System is controlled with reference to a Controlling Standard Time Difference for both CSS3-X and CSS3-Y as assigned by the Commandant. LMS FUCHU monitors and reports on the quality of synchronization regarding:

- (a) PHASE CODING
- (b) FREQUENCY
- (c) REPETITION RATE
- (d) PULSE SHAPE AND SPACING
- (e) TIME DIFFERENCE AND TOLERANCE
- (f) BLINK AND UNUSABLE TIME
- (g) SYNCHRONIZATION WITH RESPECT TO UNIVERSAL TIME

2. In addition to Loran-C and Universal Timing LMS FUCHU also operates and maintains Omega Monitoring and recording equipment. This is accomplished in conjunction with the world-wide system of Omega Navigation which is under development at this time.

#### B. COMMUNICATIONS

LMS FUCHU operates and maintains Single Sideband Communication equipment as necessary for operational communications in the NWPAC Loran-C Communication Network. Kamiseya Radio, the Radio Station for the Far East Section, provides emergency and back-up communication for LMS FUCHU. Emergency and back-up communications are accomplished by direct landline teletype and telephone hook-ups between LMS FUCHU and Kamiseya Radio.



## CHAPTER III

### PERSONNEL

- A. Fuchu Loran Monitor Station maintains a complement of nine personnel, broken down into three enlisted watchstanders of a non-rated status. The chief electronic technician maintains the critical upkeep and continuous training program of the station. Five additional rated personnel make up the E.T. complement for Loran Monitor Station Fuchu.
- B. All personnel records for Loran Monitor Station Fuchu, are handled through the Office, Commander, Coast Guard Section, Far East.
- C. Medical facilities are readily available for all loran monitor personnel through Fuchu Air Station. Facilities are more than adequate for both medical and dental needs. The base also offers, through the Air Force, emergency medical care for all personnel. Additional facilities on the base include a dependents clinic serving the five hundred dependents on Air Station Fuchu. The Air Force also maintains a Fire Station concerned basically with the prevention of accidents before they occur.
- D. Personnel training and education is carried out through implementation of the "Northwest Pacific Watchstanders training Guide." Another aid to training and education lies in the use of the "Headquarters Watchstanders Training Guide." Technical biweekly class sessions and practical application of the basics of the running of the "C" station, Fuchu Loran Monitor. All personnel on entering FESEC Loran Monitor Systems must go through extensive on job training with another experienced technician present.
- E. Fuchu Monitor Station offers outstanding morale and welfare benefits to all personnel on base.

The outdoor recreational facilities are almost unlimited. A heated swimming pool is open nine months a year from 11:00-20:00 daily. In the warm summer months nightly baseball leagues compete in competition with service teams throughout Japan. On base there are also six tennis courts. A dependents area has also been equipped with facilities for a children's play area, as well as numerous park areas throughout the base.

A gymnasium, completely equipped, is located within easy walking distance and offers basketball as well as karate sessions year round.

Fuchu Air Station has the additional services of a movie theater which in conjunction with the U.S.O. offers, fairly up-to-date, movies weekly.

All official mail is handled through the APO 96525. Personal mail may be sent through the same APO to the Central Mail Room, where each member of Loran Monitor Station, has a box. Mail may also be sent through the Japanese Postal System, which takes on the average one day longer in delivery. Postal fees through the APO are computed from San Francisco to the destination of their delivery. This computation amounts to the same postal rate charged from the Continental United States.

Large packages delivered from the States will take from four to eight weeks in reaching Fuch, as they must travel as surface mail from a port of debarkation.

A wide selection of products can be purchased through the Air Force Base Exchange. Prices are considerably less than what can be found Stateside on many products. Connected to the Base Exchange are several departments of interest, such as delicatessen, snack bar, purchasing agent for domestic cars, and a flower and garden shop.

F. Private rooms add to the health and sanitation of the base, also a closed sewage system on base provide Fuchu with every safeguard for health and sanitation possible.



CHAPTER IV

ENGINEERING

A. GENERAL ENGINEERING

1. LMS FUCHU utilizes commercial 50 Hz power for station lighting and general utilities. This commercial power also drives a 50 Hz to 60 Hz 18.5 KW motor generator (converter.) The 50 Hz to 60 Hz converter supplies the 60 Hz power necessary for the operation of the 60 Hz to 400 Hz generator which is required for the operation of the AN/SPN-30 Loran-C receivers.

2. LMS FUCHU has one 20 KW emergency power generating plant (PE-205) and associated switching equipment from which the entire monitor station is operated in the event of a commercial power failure.

3. All general and civil engineering for LMS FUCHU is accomplished by the 1956 Communications Group and the Fuchu Air Station Civil Engineers. Such items as:

- (a) Air Conditioning
- (b) Maintenance of the PE-205
- (c) Fuel Oil
- (d) Heating Systems
- (e) Building Maintenance
- (f) Plumbing
- (g) General Electrical Repair and Maintenance

are the responsibilities of the above mentioned organizations through Inter-service Support Agreement.

B. ELECTRONICS ENGINEERING

1. LMS FUCHU is an operational Loran Monitoring Station and therefore is responsible for all electronics engineering and maintenance as required by current directives and publications.

2. The following is a list of electronic equipment operated and maintained by LMS FUCHU personnel:

- (a) AN/SPN-30 Loran-C Receivers with Associated Indicators and Antenna Couplers - 3 ea.
- (b) Hewlett Packard 5061A Cesium Beam Frequency Standard - 2 ea.
- (c) Loran-C Epoch Monitor Model ST-101.
- (d) Austron Loran-C Monitor (Timing Receiver) Model 2000

- (e) Lorchron Loran-C Timing Receiver Model LFT-502
- (f) Tracor Frequency Distribution Unit Model 525
- (g) Tracor Linear Phase/Time Comparator Model 895A - 2 ea.
- (h) ME-179/U (part of AN/USH-8) Recording Ammeter - 7 ea.
- (i) Honeywell Elektronik 15 and Elektronik 16 Multipoint Recorders, 2 ea.
- (j) Tracor Model 599 Omega Monitor
- (k) AN/URT-17A Radio Transmitter
- (l) R-840/URR Receiver (Communications) - 2 ea.
- (m) CV-591A/URR Single Sideband Converter - 2 ea.
- (n) Frequency Shift Converter Model 1946A - 2 ea.

In addition to the above mentioned major electronic equipments there are many other support items and pieces of test equipment on board.

3. LMS FUCHU also has radio-teletype capabilities, however it is not frequently used. All radio-teletype traffic is usually handled by Kamiseya Radio and passed to Fuchu by direct landline teletype. The 1956 Communication Group also provides maintenance and repair of teletype equipment and circuits installed at LMS FUCHU.

4. The AN/SPN-30 Loran Receivers have been modified to accept the external 100 KHz reference from the Cesium Beam Oscillators through the Tracor Frequency Distribution Unit. A toggle switch has been mounted on the front of the SPN-30 receivers to enable the operator to select either the external 100 KHz Cesium Beam Reference or the internal 100 KHz Crystal Oscillator Reference in the event of a Cesium Oscillator failure.

5. All electronic test equipment at LMS FUCHU is calibrated on a quarterly basis as scheduled by the U. S. Air Force Precision Maintenance Electronics Laboratory at Tachikawa Air Force Base. This particular form of support provided by the Air Force is well coordinated and requires a minimum of effort by personnel at LMS FUCHU.



CHAPTER V

COMPTROLLER

- A. Comptroller facilities contained on Air Station Fuchu contain a full line of American made products and is centrally located on the base. The base commissary is open daily and has provisions to make special order from other bases in the area.
- B. All supply related requisitions, resupply and Boards of Survey are processed through Coast Guard Far East Section command.
- C. Pay records and implementation are carried out for Fuchu Loran Monitor Station through the main office Far East Section Comptroller.
- D. Fuel lube oil requisitions are readily available through base gas station, located on Fuchu Air Station.
- E. Transportation for Fuchu Air Station is generally carried out through FESEC office. Two vehicles consisting of one car, one carryall GMC truck and one duty driver. On any unofficial travel is usually carried out through Government contract busses for inter-base travel at a nominal price. Within Fuchu Air Station there is also a Japanese taxi authorized. These base taxis are slightly more expensive than other Japanese taxis which are not authorized on base.

CHAPTER VI

ADMINISTRATION

A. The reports and logs maintained by LMS FUCHU in accordance with the latest instructions are:

(a) CG-2899 Report of Loran Station Operation and Electronics Engineering with enclosures (monthly)

(b) CG-2614 Communication Summary (monthly and quarterly)

(c) Weekly Loran-C Summary Graph

(d) Daily Loran Report to O'COMFESEC

(e) Daily Message to U. S. Naval Observatory

(f) Miscellaneous Reports required by the Air Force

(g) CG-3912 Loran-C Transmitting Station and/or Monitor Log

(h) CG-2614A Radio Log

(i) Several miscellaneous logs and tally sheets as necessary to meet local needs.

B. All official correspondence concerning LMS FUCHU in any way must be channeled through O'COMFESEC.

C. The Technician in Charge of LMS FUCHU is responsible for the proper and efficient operation of the Monitor Station. He may delegate authority and assign duties as required for the smooth operation of the station in accordance with CG-300, Coast Guard Regulations.

D. Station Bills are enclosed as supplements.



CHAPTER VII

GUIDANCE FOR RELIEF PERSONNEL

A. The following mailing addresses are used for incoming mail:

LORAN MONITOR STATION  
c/o O'COMFESEC USCG  
APO SAN FRANCISCO, CAL.  
96525

U. S. COAST GUARD  
LORAN-C MONITOR STATION  
BLDG 683  
FUCHU AIR STATION  
FUCHU-SHI, TOKYO-TO, JAPAN

B. U. S. Postage Stamps are acceptable for all incoming mail.

C. FAMILY FACILITIES - There are three main Family Housing Annexes within an hours drive of Fuchu.

1. KANTO MURA - This is a five minute drive from Fuchu. It has a 3 child requirement before assignment. Quadplex type courts.

2. GREEN PARK - About 30 minutes from Fuchu. It is an old WWII aircraft factory converted to an apartment building. This is the only apartment type Government quarters available.

3. GRANT HEIGHTS - Usually 45 minutes well suffice to cover the travel time from Fuchu. No requirements as to number of dependents. Units range from singles up to triplex.

D. Personal effects should be sent to LMS FUCHU as soon as possible after receipt of orders. If you have any questions or desire specific information, please write to the Technician in Charge of LMS FUCHU at the above APO address.

E. THINGS FOR NEW OIC TO DO

As you can see from the previous pamphlet Loran C is not all we maintain. Actually although it is the equipment which requires the most man hours to maintain it is not your biggest problem. The reason for this is that your men are well trained on loran and can handle most difficulties whereas the Omega and the Loran Timing Program are relatively new. Therefore, if you can get orders to spend a week at Headquarters for familiarization in these programs and the current desires of the program heads it will be of a great assistance to you.

Enclosed below are some ideas of a personnel nature which you may have doubts on due to false rumors:

(a) Don't bring a big car. Roads are too small and small cars can be bought here cheaply.

(b) Work clothing and uniforms can be obtained locally but devices, raincoats, etc., not available.

(c) Subsistence paid, quarters supplied, plan accordingly.

(d) International Drivers License is not accepted for Armed Forces personnel. Local license based on Stateside license will be obtainable locally.

F. Travel to and from Tokyo, Japan is usually accomplished via MAC military charter. Occasionally commercial transportation is authorized. In either case, upon arrival in Japan at Tokyo International Airport or Yokota Air Base, after clearing Customs and the other formalities, please call Fuchu Air Station 224-5700 or 224-7188 and you will either be given instructions on how to get to Fuchu Air Station or transportation will be arranged for you. If this is your first time in the Tokyo area the main thing to remember is don't panic. LMS FUCHU is operating continuously 24 hours a day and if you encounter any difficulties call the above telephone numbers. If you arrive at Tokyo International Airport it is advisable to convert at least \$10.00 to \$20.00 into Japanese currency, which is called Yen, at the airport bank, to cover any incidental expenses such as telephone calls and taxi fares that might arise.



GENERAL QUARTERS AND NBC WARFARE BILL

1. GENERAL

In view of the fact that LMS FUCHU is located on an Air Force, Base, station personnel will follow the most current Disaster Control Plan for the 6100th Support Wing. A copy of this plan is on file in the station files. All hands will be familiar with the contents of this plan.

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