

975

JUL 16 1965 OAN



TREASURY DEPARTMENT  
UNITED STATES COAST GUARD

Address reply to:  
COMMANDER (O)  
11TH COAST GUARD DISTRICT  
HEARTWELL BUILDING  
19 PINE AVENUE  
LONG BEACH, CALIF. 90802

From: Commanding Officer, Pt. Arguello Loran Transmitting Station  
To: Commander, Eleventh Coast Guard District (O)  
Via: Commander, CG Group, Santa Barbara, California  
Subj: Installation of Meteorological Equipment

5740  
Ser: oan 191-65  
9 July 1965

From: Commander, 11th CG District  
To: Commandant (OAN)

Subj: Installation of Meteorological Equipment, request for permission;  
forwarding of

1. Basic request of the 4th Weather Group, U. S. Air Force, is forwarded as enclosure (1) with attachments concerning instrumentation. Comments and recommendations from Commanding Officer, Point Arguello Loran Station, are included in endorsement dated 4 June 1965. The U. S. Weather Bureau office in Los Angeles advises that they will voice no objection to the use of the equipment to provide data to their office.
2. This command has no objection to the substitution of the proposed equipment to replace the presently installed Weather Bureau equipment, provided the weather reporting duties do not further encroach upon the watchstander duties at the station.

*R. M. Dudley*  
R. M. DUDLEY  
By direction

Encl: (1) 4th Weather Group (MATS) ltr 28 May 1965 with  
attachments, and endorsement 4 June 1965

ACT	INFO	OAN	DIVISION
	3	CHIEF	
	2	ASST	
		PLAN	
		A & V.	
		PROJ	
		ELFC 1	
	1	ELFC 2	
		ELFC 3	
		PUB	
		N.M.	
		CHARTS	
		ALL	



## DETACHMENT 30

4TH WEATHER GROUP (MATS)

FIRST ENDORSEMENT on 4th WEATHER GROUP ltr dtd 28 May, 1965

4 June, 1965

From: Commanding Officer, Pt. Arguello Loran Transmitting Station  
 To: Commander, Eleventh Coast Guard District (e)  
 Via: Commander, CG Group, Santa Barbara, California

28 MAY 1965  
JUN 7 1965

Subj: Installation of Meteorological Equipment

1. Request as stated in basic letter is forwarded, recommending approval.
2. The installation of the equipment stated in basic letter would not hinder the operations of this unit, if anything, the accuracy of the weather observations would be improved. It is realized that the equipment presently installed is the property of the U.S. Weather Bureau, and they should be consulted prior to any final authorizations for the installation of the Air Force equipment. All weather observations will still be sent to the Weather Bureau, the only difference being that the data will be taken off of different equipment. Representatives of the 4th Weather Group have inspected the proposed site for their installation and find it suitable for their needs. In addition, the installation will not interfere with the Loran Station installation. The equipment installed will be Air Force maintained and in addition to giving this unit a more accurate read out on weather data, it will aid the Air Force in weather needed prior to Missile launchings. The recorder unit referred to in the basic letter can be conveniently mounted in a suitable location in the Power and Signal Building.
3. It is recommended that favorable consideration be given to this request. Any further correspondence pertaining to this project should be directed to

DETACHMENT 30  
 4th WEATHER GROUP (MATS)  
 U.S. AIR FORCE  
 VANDENBERG AIR FORCE BASE  
 CALIFORNIA 93437  
 ATT: LTCOL W.L. DOTSON, CMDR.

*G.R. Froehlich Jr.*  
 G.R. FROEHLICH JR.

7 June 1965

FIRST ENDORSEMENT

From: Commander, CG Group, Santa Barbara  
 To: Commander, Eleventh CG District (e)

1. Forwarded, recommending approval.

JUN 8 1965

*D.A. Hough*  
 D. A. HOUGH

Encl(1)

DETACHMENT 30  
4TH WEATHER GROUP (MATS)  
UNITED STATES AIR FORCE  
VANDENBERG AIR FORCE BASE, CALIFORNIA 93437

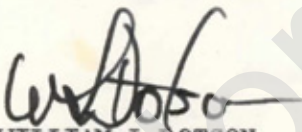
REPLY TO  
ATTN OF: 4WGD30

28 MAY 1965

SUBJECT: Installation of Meteorological Equipment

TO: Commanding Officer  
Pt Arguello LORSTA  
P.O. Box 368  
Lompoc, Calif

1. Request permission to install a Wind Measuring Set, AN/UMQ-5 and Cloud Height Measuring Set, AN/GMQ-13 at the U.S. Coast Guard LORAN transmitting Station Point Arguello, California.
2. The wind equipment transmitter would replace the transmitter unit presently installed on the Operations Building. A recorder unit would replace the present 9-light indicator by providing instantaneous wind direction and speed readings and be installed in a suitable location inside the Operations Building.
3. The cloud height set projector would be located adjacent to the west side of the heliport with the detector unit 400 ft north. The recorder providing instantaneous readings would be installed in a suitable location adjacent to the Electronics Technicians work area.
4. This equipment is non-radiating and will not create any interference with LORAN equipment operations.

  
WILLIAM L DOTSON  
Lt Colonel, USAF  
Commander

JUN 08 1965  
RECEIVED

JUN 11 1965

RECEIVED

25 January 1962

Cog Service: USN FSN:

CLOUD HEIGHT SET AN/GMQ-13C

Functional Class:

USA

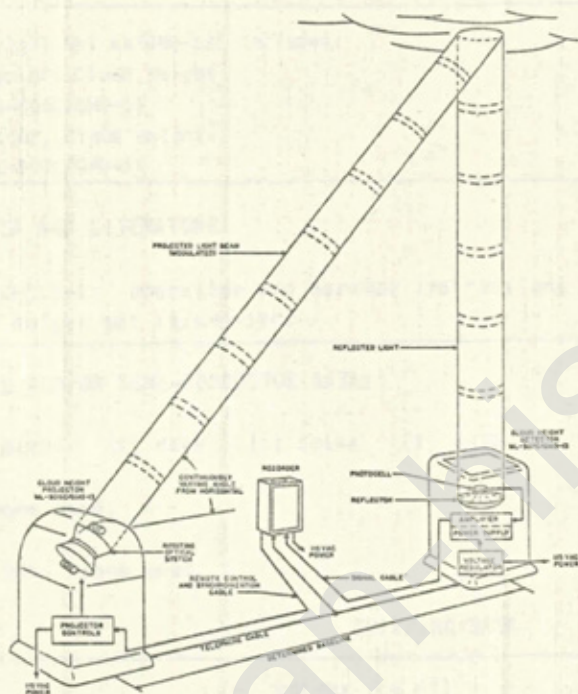
USN

USAF

Used by

TYPE CLASS:

MANUFACTURER'S NAME/CODE NUMBER: General Instrument Corp., (05828).



Cloud Height Set AN/GMQ-13C

FUNCTIONAL DESCRIPTION:

Cloud Height Set AN/GMQ-13C is a fixed ground equipment used for making rapid and accurate measurements of the lowest layer of cloud heights. This equipment is capable of observing cloud heights during the daylight hours as well as at night.

No field changes in effect at time of preparation (18 September 1961).

TECHNICAL CHARACTERISTICS:

POWER REQUIREMENTS: 115 v, 60 cyc, single ph.

RELATION TO OTHER EQUIPMENT: None.

AN/GMQ-13C CLOUD HEIGHT SET

EQUIPMENT REQUIRED BUT NOT SUPPLIED:

- (1) Indicating Device or Recorder.

MAJOR COMPONENTS

QTY	ITEM	STOCK NUMBERS	DIMENSIONS (INCHES)	WEIGHT (LBS)
1	Cloud Height Set AN/GMQ-13C includes:			
1	Projector, Cloud Height ML-506C/GMQ-13		42 x 42 x 60	950
1	Detector, Cloud Height ML-507C/GMQ-13		42 x 42 x 62	750

REFERENCE DATA AND LITERATURE:

NAVAER 50-30GMQ13-1: Operation and Service Instructions with Illustrated Parts Breakdown for Cloud Height Set AN/GMQ-13C.

TUBE, CRYSTAL AND/OR SEMI-CONDUCTOR DATA:

TUBES: (2) 0A2WA (1) 6X4W (1) 5814A (2) 6072

CRYSTALS: None used.

SEMI-CONDUCTORS: None used.

SHIPPING DATA

PKGS	VOLUME (CU FT)	WEIGHT (LBS)
1		1000
1		830

PROCUREMENT DATA

PROCURING SERVICE: USN  
SPEC &/OR DWG:

DESIGN COG: USN, BuWeps

CONTRACTOR	LOCATION	CONTRACT OR ORDER NO.	APPROX. UNIT COST
General Instrument Corp.	Brooklyn, N. Y.		
Alden Electronic Impulse Recording Equipment Co.	Westboro, Mass.	N383-64374-a	

19 January 1962  
Cog Service: USH

FSN:

WIND MEASURING SET AN/UMQ-5D  
Functional Class:

USA

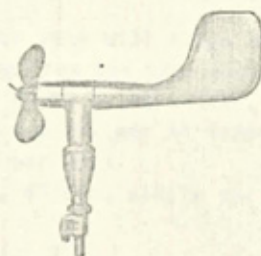
USH

USAF

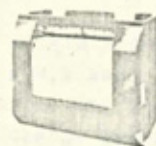
Used By

TYPE CLASS:

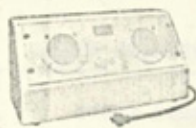
MANUFACTURER'S NAME/CODE NUMBER: Rett Products Company, (92071).



Wind Direction-Velocity  
Transmitter Model 4000/UMQ-5



Recorder, Wind Direction  
and Speed Model 5000/UMQ-5



Wind Direction-Velocity  
Indicator Model 3000/UMQ-5



Support, Model 5001/UMQ-5



Indicator, Wind Direction  
and Speed Model 5001/UMQ-5



Cabinet, Electrical  
Equipment Model 2078/UMQ-5

### Wind Measuring Set AN/UMQ-5D

#### FUNCTIONAL DESCRIPTION:

Wind Measuring Set AN/UMQ-5D is an equipment designed to provide a visual indication and a printed record of wind direction and speed values. Various options of the system are provided to permit continuous recording of wind direction and speed values measured at each of several measuring sites while indicating, on up to 5 indicators, the wind conditions detected at any one site.

No field changes in effect at time of preparation (19 October 1961).

#### TECHNICAL CHARACTERISTICS:

##### INDICATOR MEASUREMENTS

WIND DIRECTION: 0 deg to 360 deg.

WIND SPEED: 0 to 120 knots, 0 to 60 knots.

##### RECORDER MEASUREMENTS

AN/UMQ-5D WIND MEASURING SET

WIND DIRECTION: 0 deg to 360 deg.

WIND SPEED: 0 to 120 knots.

INDICATOR ACCURACY

WIND DIRECTION: Form 2 deg.

WIND SPEED: Form 1.2 knots on 0 to 120 knots range.

RECORDER ACCURACY

WIND DIRECTION: Form 4 deg.

WIND SPEED: Form 1.2 knots.

TRANSMITTER ACCURACY

WIND DIRECTION: The transmitter vane will align itself to within 3 deg of true wind direction when displaced 8 deg from the true direction of a 4.4 knot wind.

WIND SPEED: Form 1.5 knots (3 knots to 40 knots), form 3 knots (40 knots to 120 knots).

RECORDER CHART SPEEDS: 1-1/2, 3 or 6 in. per hr depending on change gears selected. (Chart supplied is graduated to 3 in. per hr.)

POWER REQUIREMENTS: 105 to 125 v, 60 cyc, single ph.

RELATION TO OTHER EQUIPMENT: None.

EQUIPMENT REQUIRED BUT NOT SUPPLIED: None.

MAJOR COMPONENTS

QTY	ITEM	STOCK NUMBERS	DIMENSIONS (INCHES)	WEIGHT (LBS)
1	Wind Measuring Set AN/UMQ-5D includes:			
1	Wind Direction-Velocity Transmitter ML-400C/UMQ-5		15-1/2 x 30 x 33	15
1	Wind Direction-Velocity Indicator ID-300C/UMQ-5		8-1/16 x 10-7/8 x 20-15/16	17
1	Recorder, Wind Direction and Speed RD-108C/UMQ-5		10-9/16 x 13-15/16 x 15-5/8	44
1	Support MT-535B/UMQ-5		48 dia x 156	

REFERENCE DATA AND LITERATURE:

NAVWEPS 50-30FR-525: Handbook of Operation and Maintenance Instructions for Wind Measuring Sets AN/UMQ-5C and AN/UMQ-5D.

NAVWEPS 50-30FR-526: Handbook of Overhaul Instructions for Wind Measuring Sets AN/UMQ-5C and AN/UMQ-5D.

NAVWEPS 50-30FR-527: Illustrated Parts Breakdown for Wind Measuring Sets AN/UMQ-5C and AN/UMQ-5D.

TUBE, CRYSTAL AND/OR SEMI-CONDUCTOR DATA:

TUBES: None used.

CRYSTALS: None used.

SEMI-CONDUCTORS: None used.

B.2 AN/UMQ-5D: 2

RCVD AUG 8 1965 OAN 7-8  
1845

UNITED STATES GOVERNMENT

U. S. COAST GUARD

# Memorandum

JUL 29 1965

ECV-2  
3000

DATE: 28 JUL 1965  
Ser 2309

TO : Chief, Aids to Navigation Division  
VIA : Chief, Shore Units Division  
FROM : Chief, Civil Engineering Division

OPERATIONS-SHORE UNITS

SUBJECT: Point Arguello Loran Station; proposed installation of meteorological equipment by Air Force

1. Approval for installation of the equipment described in the enclosure is recommended.

*T. R. Sargent*  
T. R. SARGENT

Encl: (1) Chief, OAN Remarks on Routing Sheet with attached correspondence

OSU  
5443/11  
30 JUL 1965  
Serial 787

FIRST ENDORSEMENT on ECV-2 memo 3000 of 7/28/65, Ser 2309

To: Chief, Aids to Navigation Division  
From: Chief, Shore Units Division

1. OSU sees no objection to the proposed installation of equipment.

*E. A. Crock*  
E. A. CROCK

ACT	INFO	OAN	DIVISION
	2	CHIEF	
		ASST	
		PLAN	
		A & V	
		PROJ	
	1	FLEC 1	
		FLEC 2	
		FLEC 3	
		PUB	
		N.M.	
		CHARTS	
		ATL	



1439/5