

UNITED STATES FLEET
U. S. S. PENNSYLVANIA, Flagship

San Pedro, California,
16 January, 1932.

CONFIDENTIAL

From: Commander-in-Chief, United States Fleet.
To : Commander Battle Force.
Subject: Umpire Reports -- Positions of Units during Grand Joint Exercise Number 4 and Fleet Problem XIII.
Reference: (a) U. S. Fleet Umpire Instructions 1931.
(b) Regulations for Joint Army and Navy Exercises -- prepared by Joint Board, August 15, 1924.
Enclosure: (A) Tables I, II, III, IV, V and VI for BLUE Umpires, Grand Joint Exercise Number 4.
(B) Tables I, II, III, IV, V and VI for BLUE Umpires, Fleet Problem XIII.

1. The following system is furnished for reporting to Fleet Umpire and Chief Umpire, position of own forces when not in the presence of enemy forces. This system shall not be disclosed to anyone except umpires. Umpires shall prepare personally all messages for transmission when using this system and decode all messages received in this system.

2. To report the position of a unit, six groups of letters are employed, as follows:

- (a) **First group** indicates unit or officer reported--by substituting letters for figures in the secret radio call sign of the unit (or officer) reported. Use Table I.
- (b) **Second group.** The first letter indicates a geographical point; the second and third letters together indicate the hour, expressed in two figures. Use Table II.
- (c) **Third group** indicates distance (miles) in three figures from point indicated. Use Table III.
- (d) **Fourth group** indicates true bearing (degrees) in three figures from point indicated.

In case the position reported coincides with a point, the third group (distance) is "zero zero zero" and the fourth group (bearing) may be any three letters. Use Table IV.

- (e) **Fifth group** indicates true course (degrees) in three figures. Use Table V.
- (f) **Sixth group** indicates speed (knots) in three figures (the first of which will be zero). Use Table VI.
- (g) In case there is no data for fifth (or sixth) group, fill in space with any letter used three times. For example, if information about speed is unknown, the sixth group might be "XXX" or "AAA" or "FFF," etc.
- (h) Attention is invited especially to page 7 of reference (a) relative to Umpire communications.

3. One unit will be reported by each six consecutive groups, but two or more unit reports may be combined in one message.

EXAMPLE: Crudiv two (secret radio call assumed to be W43) at 10 hours zone plus eight is 100 miles, and bears 100° true from Point C. Speed 15 knots and course 100° true. This information encoded is assumed to be "WGA CPA COZ CTJ COJ JWQ"

and

Batdiv One (secret radio call assumed to be X32) at 10 hours zone plus eight is 1 mile, and bears 0° true from Point D. Speed 12 knots and course 90° true. This information encoded is assumed to be "XVP DQA JTC JOJ ARJ JWL."

The Fleet Umpire, after noting contents of each, combines these two reports in one message for the Chief Umpire as follows:

COU V ULB — P — GR 15

0015 UMPIRE WGA CPA COZ CTJ COJ JWQ XVP DQA JTC JOJ
ARJ JWL 1010
(during Grand Joint Exercise Number 4) — and

COU V ULB — P — GR 16

0015 UMP WGA CPA COZ CTJ COJ JWQ XVP DQA JTC JOJ ARJ
JWL UMP 1010
(during Fleet Problem XIII).

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4. Examples and necessary additional instructions are included in Tables I, II, III, IV, V and VI. These sets of tables are each intended for use during only one exercise or problem.

5. I desire a copy of this letter (with the proper enclosure) to be delivered by Commander Battle Force to each BLUE Ship Umpire and Unit Umpire, and to the Fleet Umpire for Grand Joint Exercise Number 4 and for Fleet Problem XIII. Copies to these Umpires should be in individual sealed envelopes marked "Confidential — to be opened by BLUE Ship Umpire, Unit Umpire, or Fleet Umpire, and by no one else."

FRANK H. SCHOFIELD.

DISTRIBUTION:

Cinus	50
Comdr. BLUE Fleet (Combatfor) for distribution	
to BLUE Umpires	400
Opnav	10
Naval War College	30

USS Pennsylvania—1-19-32—490.

ENCLOSURE "A"

TABLE I

(Secret Radio Call Sign of Unit or Officer Reported)

1 — D	3 — A	6 — B	8 — C
1 — F	4 — G	6 — J	9 — K
2 — L	4 — M	7 — Z	9 — O
2 — P	5 — Q	7 — R	ø — T
3 — V	5 — W	8 — X	ø — Y

Note: ø — zero numeral.
 O — alphabet letter.
 Substitute letters for figures.

EXAMPLE: "W43" becomes "WGA"

TABLE II

Point	N. Latitude	W. Longitude	Point
A	15	130	A
B	20	150	B
C	25	140	C
D	30	145	D
F	35	130	F
G	20	140	G
J	25	155	J
K	20	160	K
L	15	155	L
M	30	155	M
P	Hilo Bay	Hilo Bay	P
Q	Lahaina Rds.	Lahaina Rds.	Q

Hour (2 figures)
 Zone + 8
 (Always use one number from
 each column — left to right)

ø — J	ø — A
ø — G	ø — B
ø — L	1 — F
ø — F	1 — G
1 — P	2 — L
1 — D	2 — M
1 — Q	3 — P
1 — R	3 — Q
2 — C	4 — V
2 — T	4 — W
2 — V	5 — X
2 — A	5 — Y
	6 — T
	6 — R
	7 — O
	7 — Z
	8 — K
	8 — J
	9 — D
	9 — C

EXAMPLE: "Point A at 2 hours zone plus 8"
 becomes "AJM"

TABLE III

Distance (miles) from Point — in three figures
 (Maximum 999 miles)

Always use one number from each column — left to right

1 — C	1 — W	1 — C
2 — F	2 — D	2 — L
3 — O	3 — X	3 — D
4 — K	4 — V	4 — M
5 — B	5 — U	5 — Q
6 — P	6 — Y	6 — F
7 — M	7 — Z	7 — P
8 — L	8 — B	8 — G
9 — G	9 — R	9 — Y
ø — A	ø — O	ø — J
ø — J	ø — T	ø — Z

EXAMPLE: "5 miles" from designated point
 becomes "JTQ"

ENCLOSURE "A"

TABLE IV

Bearing (true) from Point — in three figures

Always use one number from each column — left to right

1 — C	1 — W	1 — C
2 — F	2 — D	2 — L
3 — O	3 — X	3 — D
4 — K	4 — V	4 — M
5 — B	5 — U	5 — Q
6 — P	6 — Y	6 — F
7 — M	7 — Z	7 — P
8 — L	8 — B	8 — G
9 — G	9 — R	9 — Y
∅ — A	∅ — O	∅ — J
∅ — J	∅ — T	∅ — Z

EXAMPLE: "30°" true from designated point becomes "JXJ"

TABLE V

Course (true) — in three figures

Always use one number from each column — left to right

1 — C	1 — W	1 — C
2 — F	2 — D	2 — L
3 — O	3 — X	3 — D
4 — K	4 — V	4 — M
5 — B	5 — U	5 — Q
6 — P	6 — Y	6 — F
7 — M	7 — Z	7 — P
8 — L	8 — B	8 — G
9 — G	9 — R	9 — Y
∅ — A	∅ — O	∅ — J
∅ — J	∅ — T	∅ — Z

EXAMPLE: Course "5" true becomes "JOQ"

TABLE VI

Speed (knots) — in three figures

Always use one number from each column — left to right

1 — C	1 — W	1 — C
2 — F	2 — D	2 — L
3 — O	3 — X	3 — D
4 — K	4 — V	4 — M
5 — B	5 — U	5 — Q
6 — P	6 — Y	6 — F
7 — M	7 — Z	7 — P
8 — L	8 — B	8 — G
9 — G	9 — R	9 — Y
∅ — A	∅ — O	∅ — J
∅ — J	∅ — T	∅ — Z

EXAMPLE: Speed "30 knots" becomes "AXZ"

NOTE: The Chief Umpire desires a position report by this system of each important unit (task force) from Fleet Umpire — twice daily during Grand Joint Exercise Number 4 — at about one hour before sunset and at about one hour after sunrise.

BLUE Fleet Umpire maintain continuous communication with Chief Umpire on 4105 kcs. series.

BLUE. THESE TABLES FOR USE ONLY DURING GRAND JOINT EXERCISE NO. 4

ENCLOSURE "B"

TABLE I

(Secret Radio Call Sign of Unit or Officer Reported)

1 — B	3 — J	6 — P	8 — V	∅ — U
1 — C	4 — K	6 — Q	9 — W	∅ — Z
2 — D	4 — L	7 — R	9 — X	
2 — F	5 — M	7 — Y	∅ — A	
3 — G	5 — N	8 — T	∅ — O	

Note: ∅ — zero numeral.
 O — alphabet letter.
 Substitute letters for figures.

EXAMPLE: "W43" becomes "WKJ"

TABLE II

Point	N. Latitude	W. Longitude	Point
A	25	150	A
B	25	145	B
C	25	140	C
D	30	140	D
E	35	140	E
F	40	140	F
G	40	135	G
H	45	130	H
I	50	125	I
J	40	130	J
K	35	130	K
L	40	125	L
M	35	125	M

Hour (2 figures)
 Zone + 8
 Always use one number from each column —
 left to right

∅ — A	∅ — O
∅ — U	∅ — Z
∅ — O	1 — P
∅ — Z	1 — V
1 — C	2 — N
1 — Y	2 — W
1 — X	3 — J
1 — Q	3 — X
2 — D	4 — B
2 — F	4 — L
2 — L	5 — C
2 — K	5 — F
	6 — K
	6 — R
	7 — D
	7 — M
	8 — Q
	8 — T
	9 — Y
	9 — G

EXAMPLE: "Point A at 2 hours zone plus 8"
 becomes "AZW"

TABLE III

Distance (miles) from Point — in three figures
 (Maximum 999 miles)

Always use one number from each column — left to right

1 — G	1 — T	1 — N
2 — B	2 — M	2 — F
3 — Y	3 — X	3 — D
4 — C	4 — J	4 — G
5 — K	5 — R	5 — Q
6 — D	6 — K	6 — L
7 — W	7 — Q	7 — P
8 — F	8 — L	8 — R
9 — V	9 — P	9 — X
∅ — A	∅ — O	∅ — U
∅ — J	∅ — B	∅ — Z
		∅ — O
		∅ — A

EXAMPLE: "3 miles" from designated point
 becomes "JBD"

ENCLOSURE "B"

TABLE IV

Bearing (true) from Point — in three figures

Always use one number from each column — left to right

1 — G	1 — T	1 — N
2 — B	2 — M	2 — F
3 — Y	3 — X	3 — D
4 — C	4 — J	4 — G
5 — K	5 — R	5 — Q
6 — D	6 — K	6 — L
7 — W	7 — Q	7 — P
8 — F	8 — L	8 — R
9 — V	9 — P	9 — X
∅ — A	∅ — O	∅ — U
∅ — J	∅ — B	∅ — Z
		∅ — O
		∅ — A

EXAMPLE: "30°" true from designated point becomes "AXA"

TABLE V

Course (true) — in three figures

Always use one number from each column — left to right

1 — G	1 — T	1 — N
2 — B	2 — M	2 — F
3 — Y	3 — X	3 — D
4 — C	4 — J	4 — G
5 — K	5 — R	5 — Q
6 — D	6 — K	6 — L
7 — W	7 — Q	7 — P
8 — F	8 — L	8 — R
9 — V	9 — P	9 — X
∅ — A	∅ — O	∅ — U
∅ — J	∅ — B	∅ — Z
		∅ — O
		∅ — A

EXAMPLE: Course "50°" true becomes "JRZ"

TABLE VI

Speed (knots) — in three figures

Always use one number from each column — left to right

1 — G	1 — T	1 — N
2 — B	2 — M	2 — F
3 — Y	3 — X	3 — D
4 — C	4 — J	4 — G
5 — K	5 — R	5 — Q
6 — D	6 — K	6 — L
7 — W	7 — Q	7 — P
8 — F	8 — L	8 — R
9 — V	9 — P	9 — X
∅ — A	∅ — O	∅ — U
∅ — J	∅ — B	∅ — Z
		∅ — O
		∅ — A

EXAMPLE: Speed "25 knots" becomes "AMQ"

NOTE: The Chief Umpire desires a position report (by this system) of each important unit (task force) from Fleet Umpire — twice daily during Fleet Problem XIII — at about one hour before sunset and at about one hour after sunrise.

BLUE. THESE TABLES FOR USE ONLY DURING FLEET PROBLEM XIII.