APPENDIX A
NAMING CONVENTIONS

NAMING OF GEOMETRY

1. Geometry files are used by all stations in the AFATDS. Because of their universal nature and the requirement to interface with IFSAS equipment, a naming convention must be established to ensure understanding and lack of duplication.

2. Geometry names use not more than six characters. These six characters are slit to provide the following three pieces of information:

a. The first two characters designate the type of geometry:

(1) AC = Airspace coordination area (ACA)
(2) CH = Chemical hazard area (CHA)
(3) CL = Coordinated fire line (CFL)
(4) DA = Damage assessment area (DAA)
(5) DS = Dead space are (DSA)
(6) SA = Fire support area (FSA)
(7) SS = Fire support station (FSS)
(8) FF = Free fire area (FFA)
(9) FL = Forward line of troops (FLOT)
(10) FS = Fire support coordination line (FSCL)
(11) NF = No fire area (NFA)
(12) OB = Objective area (OBJ)
(13) OL = Obstacle line
(14) PA = Position area
(15) RF = Restricted fire area (RFA)
(16) RL = Restricted fire line (RFL)
(17) TA = Target area of interest (TAI)
(18) TV = Target value area (TVA)
(19) ZO = Zone of responsibility (ZOR)

b. The third character is a numerical sequencing of the geometry input. For example, the first RFA established by an agency is number 1. Number one may be updated or completely deleted and replaced with number 2

c. The forth, fifth and sixth characters are the tag name of the unit that established the geometry.

d. Examples:

(1) ZO13MD = the first zone established by 3RD Marine Division.
(2) FL29MR = the second FLOT established by 9th Marine Regiment.
(3) DS4E11 = forth DSA established by E battery, 11th Marines.
(4) RF21A8 = second RFA established by 1st Battalion, 8th Marines.

UNIT TAG NAMES

1. TAG names are three digit abbreviations used to identify units in message data fields with limited space. The TAG names are used in the FSCOORD fields of support messages as well as in the naming of fire plans and geometry.

2. The following rules apply:

a. Regimental and larger size units are identified by the numerical designation followed by two characters identifying the unit size. The following unit size designators are used:

(1) MF = MEF

(2) FF = MEF FORWARD

(3) MU = MEU

(4) MD = Marine Division

(5) MR = Marine Regiment

(6) MAG = Marine Air Group

(7) MAW = Marine Air Wing

(8) Regiments with two digit designation (i.e. 25th Marines) use the number followed by M.

b. Battalions use the battalion name replacing the virgil (/) with the letter A. For example 1A5 is 1st Battalion, 5th Marines.

c. Battalions of regiments numbered greater than 9 use the battalion name, omitting the virgil (/). For example 127 is 1st Battalion, 27th Marines.

d. Separate battalions use the battalion name followed by two letters identifying the battalion:

(1) AA = Assault Amphibian Battalion

(2) CE = Combat Engineer Battalion

(3) LA = Light Armored Infantry Battalion

(4) TK = tank battalion.

e. Batteries use the battery letter followed by the regiment number.

f. Forward observers use the letters FO followed by the letter of the supported infantry company.

g. The TPC uses the letter T followed by the artillery regiment's number.

NAMING OF PLANNED SITUATIONS

Planned situations are named using six characters and the following convention.

1. The first two letters of a planned situation will always be PL.

2. The third character is a letter designating the sequencing of the planned situation. For example, the first planned situation established by an agency is A.

3. The forth, fifth and sixth characters are the tag name of the unit that established the planned situation.

NAMING OF A AIR TARGET PLAN

When MEF designates that a plan containing air targets be built all units will name the plan using the following convention. This convention must be followed to ensure the reception of all AMLs in the same plan.

1. The first six characters will always be AIRDAY, typed in upper case with no spaces.

2. The seventh and eighth characters are the date for the execution of the ATO the targets are being submitted for.

EXAMPLE

AIRDAY25: name of the plan for air targets submitted on the 23rd for execution the 25th.

NAMING OF AN AIR MISSION LIST

When an AML is transmitted from a subordinate to higher itis received in the plan AIRDAYXX. To distinguish between the units submitting the AMLs a naming convention must be established, the following convention will be used.

1. The first three characters will always be AML this is a default and is not entered.

2. The fourth and fifth characters will always be AD, an abbreviation for air day.

3. The sixth, seventh and eight characters are the unit tag name.

EXAMPLE

AML AD257MR: The name describes the AML from 7th Marines for air day 25.

NAMING OF FIRE PLANS

1. Fire plans are named using six characters and the following convention.

2. The first two letters indicate the type of plan:

a. CA = counter mech (armor) program

b. CF = counterfire program

c. CP = counter prep

d. FA = FASCAM

e. FP = fire plan

f. GP = group

g. MO = counter mobility program

h. OC = on call plan

i. PP = preparation fire

j. QK = quick fire plan

k. SA = suppression of enemy air defense plan

l. SE = series

m. TB = target bulletin

n. TL = target list

3. The third character is a numerical sequencing of the fire plan schedule of fire. For example, the first prep established by an agency is number 1. If the plan is a future fire support plan in AFATDS (not simply a schedule of fire) the third character is a letter.

4. The forth, fifth and sixth characters are the tag name of the unit that established the fire plan.

5. Examples:

a. SE21A6 = is the second series established by 1st Battalion, 6th Marines.

b. CF1T10 = is the first counterfire program established by 10th Marines TPC.

c. PP12MD = is the first prep established by 2d Marine Division.

APPENDIX B

MARINE CORPS MASTER UNIT LIST

UNIT NUMBER	UNIT ID					TACFIRE/ ACCS ALIAS	DEVICE
1.	_ ____	_____	_____	NULL__	UNIT_____	_/_/_/__/___	AFATDS
2.	_ FFCC	_____	_____	_____	IMF_____	F/F/C/1_/MF_	AFATDS
3.	_ TCO_	_____	_____	_____	IMF_____	_/_/_/__/___	MCS
4.	_ IAS_	_____	_____	_____	IMF_____	_/_/_/__/___	ASAS
5.	_ FFCC	FWD__	_____	_____	IMF_____	F/W/D/1_/MF_	AFATDS
6.	_ TCO_	FWD__	_____	_____	IMF_____	_/_/_/__/___	MCS
7.	_ IAS_	FWD__	_____	_____	IMF_____	_/_/_/__/___	ASAS
8.	_ CP__	_____	1ST-___	ANGLIC	IMF_____	A/N/G/1_/MF_	AFATDS
9.	_ CP__	FWD__	1ST-___	ANGLIC	IMF_____	F/W/D/1_/ANG	AFATDS
10.	_ 1BDE	_____	1ST-___	ANGLIC	IMF_____	A/N/G/1_/BD1	AFATDS
11.	_ 1BDE	FWD__	1ST-___	ANGLIC	IMF_____	F/W/D/1_/BD1	AFATDS
12.	1 SALT	1BDE_	1ST-___	ANGLIC	IMF_____	S/A/L/1_/1M1	DCT
13.	2 SALT	1BDE_	1ST-___	ANGLIC	IMF_____	S/A/L/2_/1M1	DCT
14.	3 SALT	1BDE_	1ST-___	ANGLIC	IMF_____	S/A/L/3_/1M1	DCT
15.	_ 2BDE	_____	1ST-___	ANGLIC	IMF_____	A/N/G/1_/BD2	AFATDS
16.	_ 2BDE	FWD__	1ST-___	ANGLIC	IMF_____	F/W/D/1_/BD2	AFATDS
17.	1 SALT	2BDE_	1ST-___	ANGLIC	IMF_____	S/A/L/1_/2M1	DCT
18.	2 SALT	2BDE_	1ST-___	ANGLIC	IMF_____	S/A/L/2_/2M1	DCT
19.	3 SALT	2BDE_	1ST-___	ANGLIC	IMF_____	S/A/L/3_/2M1	DCT
20.	_ 3BDE	_____	1ST-___	ANGLIC	IMF_____	A/N/G/1_/BD3	AFATDS
21.	_ 3BDE	FWD__	1ST-___	ANGLIC	IMF_____	F/W/D/1_/BD3	AFATDS
22.	1 SALT	3BDE_	1ST-___	ANGLIC	IMF_____	S/A/L/1_/3M1	DCT
23.	2 SALT	3BDE_	1ST-___	ANGLIC	IMF_____	S/A/L/2_/3M1	DCT
24.	3 SALT	3BDE_	1ST-___	ANGLIC	IMF_____	S/A/L/3_/3M1	DCT
25.	_ CP__	_____	3D_VMU_	3AW___	IMF_____	V/M/U/3_/3AW	AFATDS
26.	_ CP__	FWD__	3D_VMU_	3AW___	IMF_____	F/W/D/3_/VMU	AFATDS
27.	_ FO05	_____	3D_VMU_	3AW___	IMF_____	V/M/U/05/3AW	DCT
28.	_ FO06	_____	3D_VMU_	3AW___	IMF_____	V/M/U/06/3AW	DCT
29.	_ FO07	_____	3D_VMU_	3AW___	IMF_____	V/M/U/07/3AW	DCT
30.	_ FO08	_____	3D_VMU_	3AW___	IMF_____	V/M/U/08/3AW	DCT
31.	_ ____	_____	MAG_11_	3AW___	IMF_____	_/_/_/__/___	AIR
32.	_ ____	_____	MAG_16_	3AW___	IMF_____	_/_/_/__/___	AIR
33.	_ ____	_____	MAG_39_	3AW___	IMF_____	_/_/_/__/___	AIR
34.	_ ____	_____	MAG_13_	3AW___	IMF_____	_/_/_/__/___	AIR
35.	_ TACC	_____	_____	3AW___	IMF_____	T/A/C/3_/AW	AFATDS
36.	_ TACC	_____	CTAPS__	3AW___	IMF_____	_/_/_/__/___	MCS
37.	_ TACC	_____	TCO____	3AW___	IMF_____	_/_/_/__/___	MCS
38.	_ TACC	_____	IAS____	3AW___	IMF_____	_/_/_/__/___	ASAS
39.	_ TACC	FWD__	_____	3AW___	IMF_____	F/W/D/3_/TAC	AFATDS
40.	_ TACC	FWD__	CTAPS__	3AW___	IMF_____	_/_/_/__/___	MCS
41.	_ TACC	FWD__	TCO____	3AW___	IMF_____	_/_/_/__/___	MCS
42.	_ TACC	FWD__	IAS____	3AW___	IMF_____	_/_/_/__/___	ASAS
43.	_ DASC	_____	_____	3AW___	IMF_____	D/A/S/3_/AW_	AFATDS
44.	_ DASC	_____	CTAPS__	3AW___	IMF_____	_/_/_/__/___	MCS
45.	_ DASC	_____	TCO____	3AW___	IMF_____	_/_/_/__/___	MCS
46.	_ IAS_	_____	IAS____	3AW___	IMF_____	_/_/_/__/___	ASAS

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47.   _ DASC FWD__ _______ 3AW___ IMF_______    F/W/D/3_/DAS      AFATDS
48.   _ DASC FWD__ CTAPS__ 3AW___ IMF_______    _/_/_/__/___      MCS
49.   _ DASC FWD__ TCO____ 3AW___ IMF_______    _/_/_/__/___      MCS
50.   _ DASC FWD__ IAS____ 3AW___ IMF_______    _/_/_/__/___      ASAS
51.   _ FSCC _____ _______ 1MD___ IMF_______    F/S/C/1_/MD_      AFATDS
52.   _ TCO  _____ _______ 1MD___ IMF_______    _/_/_/__/___      MCS
53.   _ IAS_ _____ _______ 1MD___ IMF_______    _/_/_/__/___      ASAS
54.   _ FSCC FWD__ _______ 1MD___ IMF_______    F/W/D/1_/MD_      AFATDS
55.   _ TCO  FWD__ _______ 1MD___ IMF_______    _/_/_/__/___      MCS
56.   _ IAS_ FWD__ _______ 1MD___ IMF_______    _/_/_/__/___      ASAS
57.   _ RAOC _____ 1FSSG__ 1MD___ IMF_______    R/O/C/1_/FSG      AFATDS
58.   _ FSCC _____ 1LA____ 1MD___ IMF_______    F/S/C/1_/LA_      AFATDS
59.   _ TCO_ _____ 1LA____ 1MD___ IMF_______    _/_/_/__/___      MCS
60.   _ IAS_ _____ 1LA____ 1MD___ IMF_______    _/_/_/__/___      ASAS
61.   _ FSCC FWD__ 1LA____ 1MD___ IMF_______    F/W/D/1_/LA_      AFATDS
62.   _ TCO_ FWD__ 1LA____ 1MD___ IMF_______    _/_/_/__/___      MCS
63.   _ IAS_ FWD__ 1LA____ 1MD___ IMF_______    _/_/_/__/___      ASAS
64.   _ FO01 CO_A_ 1LA____ 1MD___ IMF_______    F/O/A/01/1LA      DCT
65.   1 MTR1 CO_A_ 1LA____ 1MD___ IMF_______    1/1/A/20/1LA      MBC
66.   _ FO02 CO_B_ 1LA____ 1MD___ IMF_______    F/O/B/02/1LA      DCT
67.   2 MTR1 CO_B_ 1LA____ 1MD___ IMF_______    2/1/B/20/1LA      MBC
68.   _ FO03 CO_C_ 1LA____ 1MD___ IMF_______    F/O/C/03/1LA      DCT
69.   3 MTR1 CO_C_ 1LA____ 1MD___ IMF_______    3/1/C/20/1LA      MBC
70.   _ FO04 CO_D_ 1LA____ 1MD___ IMF_______    F/O/D/04/1LA      DCT
71.   4 MTR1 CO_D_ 1LA____ 1MD___ IMF_______    4/1/D/20/1LA      MBC
72.   _ FSCC _____ 1TK____ 1MD___ IMF_______    F/S/C/1_/TK_      AFATDS
73.   _ TCO_ _____ 1TK____ 1MD___ IMF_______    _/_/_/__/___      MCS
74.   _ IAS_ _____ 1TK____ 1MD___ IMF_______    _/_/_/__/___      ASAS
75.   _ FO05 CO_A_ 1TK____ 1MD___ IMF_______    F/O/A/05/1TK      DCT
76.   _ FO06 CO_B_ 1TK____ 1MD___ IMF_______    F/O/B/06/1TK      DCT
77.   _ FO07 CO_C_ 1TK____ 1MD___ IMF_______    F/O/C/07/1TK      DCT
78.   _ FO08 C0_D_ 1TK____ 1MD___ IMF_______    F/O/D/08/1TK      DCT
79.   _ FSCC _____ 1MR____ 1MD___ IMF_______    F/S/C/1_/MR_      AFATDS
80.   _ TCO_ _____ 1MR____ 1MD___ IMF_______    _/_/_/__/___      MCS
81.   _ IAS_ _____ 1MR____ 1MD___ IMF_______    _/_/_/__/___      ASAS
82.   _ FSCC FWD__ 1MR____ 1MD___ IMF_______    F/W/D/1_/MR_      AFATDS
83.   _ TCO  FWD__ 1MR____ 1MD___ IMF_______    _/_/_/__/___      MCS
84.   _ IAS_ FWD__ 1MR____ 1MD___ IMF_______    _/_/_/__/___      ASAS
85.   _ FAC_ 10___ 1MR____ 1MD___ IMF_______    F/A/C/10/1MR      DCT
86.   _ FSCC 1BN__ 1MR____ 1MD___ IMF_______    F/S/C/1_/1MR      AFATDS
87.   _ TCO_ 1BN__ 1MR____ 1MD___ IMF_______    _/_/_/__/___      MCS
88.   _ IAS_ 1BN__ 1MR____ 1MD___ IMF_______    _/_/_/__/___      ASAS
89.   _ FWD_ 1BN__ 1MR____ 1MD___ IMF_______    F/W/D/1_/1MR      AFATDS
90.   F TCO_ 1BN__ 1MR____ 1MD___ IMF_______    _/_/_/__/___      MCS
91.   F IAS_ 1BN__ 1MR____ 1MD___ IMF_______    _/_/_/__/___      ASAS
92.   _ TACP 1BN__ 1MR____ 1MD___ IMF_______    T/A/C/21/1A1      DCT
93.   _ WPNS 1BN__ 1MR____ 1MD___ IMF_______    W/P/N/1_/1MR      AFATDS
94.   1 MTR_ 1BN__ 1MR____ 1MD___ IMF_______    1/8/M/1_/1MR      MBC
95.   2 MTR_ 1BN__ 1MR____ 1MD___ IMF_______    2/8/M/1_/1MR      MBC
96.   A FO11 1BN__ 1MR____ 1MD___ IMF_______    F/O/A/11/___      DCT
97.   B FO12 1BN__ 1MR____ 1MD___ IMF_______    F/O/B/12/___      DCT
98.   C FO13 1BN__ 1MR____ 1MD___ IMF_______    F/O/C/13/___      DCT
99.   _ FSCC 2BN__ 1MR____ 1MD___ IMF_______    F/S/C/2_/1MR      AFATDS
100.  _ TCO  2BN__ 1MR____ 1MD___ IMF_______    _/_/_/__/___      MCS
101.  _ IAS_ 2BN__ 1MR____ 1MD___ IMF_______    _/_/_/__/___      ASAS
102.  _ FWD_ 2BN__ 1MR____ 1MD___ IMF_______    F/W/D/2_/1MR      AFATDS
103.  F TCO_ 2BN__ 1MR____ 1MD___ IMF_______    _/_/_/__/___      MCS
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104.	F	IAS_	2BN__	1MR____	1MD___	IMF_____	_/_/_/__/___	ASAS
105.	_	TACP	2BN__	1MR____	1MD___	IMF_____	T/A/C/22/2A1	DCT
106.	_	WPNS	2BN__	1MR____	1MD___	IMF_____	W/P/N/2_/1MR	AFATDS
107.	1	MTR_	2BN__	1MR____	1MD___	IMF_____	1/8/M/2_/1MR	MBC
108.	2	MTR_	2BN__	1MR____	1MD___	IMF_____	2/8/M/2_/1MR	MBC
109.	E	FO14	2BN__	1MR____	1MD___	IMF_____	F/O/E/14/___	DCT
110.	F	FO15	2BN__	1MR____	1MD___	IMF_____	F/O/F/15/___	DCT
111.	G	FO16	2BN__	1MR____	1MD___	IMF_____	F/O/G/16/___	DCT
112.	_	FSCC	3BN__	1MR____	1MD___	IMF_____	F/S/C/3_/1MR	AFATDS
113.	_	TCO	3BN__	1MR____	1MD___	IMF_____	_/_/_/__/___	MCS
114.	_	IAS_	3BN__	1MR____	1MD___	IMF_____	_/_/_/__/___	ASAS
115.	_	FWD_	3BN__	1MR____	1MD___	IMF_____	F/W/D/3_/1MR	AFATDS
116.	F	TCO	3BN__	1MR____	1MD___	IMF_____	_/_/_/__/___	MCS
117.	F	IAS_	3BN__	1MR____	1MD___	IMF_____	_/_/_/__/___	ASAS
118.	_	TACP	3BN__	1MR____	1MD___	IMF_____	T/A/C/23/3A1	DCT
119.	_	WPNS	3BN__	1MR____	1MD___	IMF_____	W/P/N/3_/1MR	AFATDS
120.	1	MTR_	3BN__	1MR____	1MD___	IMF_____	1/8/M/3_/1MR	MBC
121.	2	MTR_	3BN__	1MR____	1MD___	IMF_____	2/8/M/3_/1MR	MBC
122.	I	FO17	3BN__	1MR____	1MD___	IMF_____	F/O/I/17/___	DCT
123.	K	FO18	3BN__	1MR____	1MD___	IMF_____	F/O/K/18/___	DCT
124.	L	FO19	3BN__	1MR____	1MD___	IMF_____	F/O/L/19/___	DCT
125.	_	FSCC	_____	5MR____	1MD___	IMF_____	F/S/C/5_/MR_	AFATDS
126.	_	TCO_	_____	5MR____	1MD___	IMF_____	_/_/_/__/___	MCS
127.	_	IAS_	_____	5MR____	1MD___	IMF_____	_/_/_/__/___	ASAS
128.	_	FSCC	FWD__	5MR____	1MD___	IMF_____	F/W/D/5_/MR_	AFATDS
129.	_	TCO	FWD__	5MR____	1MD___	IMF_____	_/_/_/__/___	MCS
130.	_	IAS_	FWD__	5MR____	1MD___	IMF_____	_/_/_/__/___	ASAS
131.	_	FAC_	50___	5MR____	1MD___	IMF_____	F/A/C/50/5MR	DCT
132.	_	FSCC	1BN__	5MR____	1MD___	IMF_____	F/S/C/1_/5MR	AFATDS
133.	_	TCO_	1BN__	5MR____	1MD___	IMF_____	_/_/_/__/___	MCS
134.	_	IAS_	1BN__	5MR____	1MD___	IMF_____	_/_/_/__/___	ASAS
135.	_	FWD_	1BN__	5MR____	1MD___	IMF_____	F/W/D/1_/5MR	AFATDS
136.	F	TCO_	1BN__	5MR____	1MD___	IMF_____	_/_/_/__/___	MCS
137.	F	IAS_	1BN__	5MR____	1MD___	IMF_____	_/_/_/__/___	ASAS
138.	_	TACP	1BN__	5MR____	1MD___	IMF_____	T/A/C/24/1A5	DCT
139.	_	WPNS	1BN__	5MR____	1MD___	IMF_____	W/P/N/1_/5MR	AFATDS
140.	1	MTR_	1BN__	5MR____	1MD___	IMF_____	1/8/M/1_/5MR	MBC
141.	2	MTR_	1BN__	5MR____	1MD___	IMF_____	2/8/M/1_/5MR	MBC
142.	A	FO51	1BN__	5MR____	1MD___	IMF_____	F/O/A/51/___	DCT
143.	B	FO52	1BN__	5MR____	1MD___	IMF_____	F/O/B/52/___	DCT
144.	C	FO53	1BN__	5MR____	1MD___	IMF_____	F/O/C/53/___	DCT
145.	_	FSCC	2BN__	5MR____	1MD___	IMF_____	F/S/C/2_/5MR	AFATDS
146.	_	TCO_	2BN__	5MR____	1MD___	IMF_____	_/_/_/__/___	MCS
147.	_	IAS_	2BN__	5MR____	1MD___	IMF_____	_/_/_/__/___	ASAS
148.	_	FWD_	2BN__	5MR____	1MD___	IMF_____	F/W/D/2_/5MR	AFATDS
149.	F	TCO_	2BN__	5MR____	1MD___	IMF_____	_/_/_/__/___	MCS
150.	F	IAS_	2BN__	5MR____	1MD___	IMF_____	_/_/_/__/___	ASAS
151.	_	TACP	2BN__	5MR____	1MD___	IMF_____	T/A/C/25/2A5	DCT
152.	_	WPNS	2BN__	5MR____	1MD___	IMF_____	W/P/N/2_/5MR	AFATDS
153.	1	MTR_	2BN__	5MR____	1MD___	IMF_____	1/8/M/2_/5MR	MBC
154.	2	MTR_	2BN__	5MR____	1MD___	IMF_____	2/8/M/2_/5MR	MBC
155.	E	FO54	2BN__	5MR____	1MD___	IMF_____	F/O/E/54/___	DCT
156.	F	FO55	2BN__	5MR____	1MD___	IMF_____	F/O/F/55/___	DCT
157.	G	FO56	2BN__	5MR____	1MD___	IMF_____	F/O/G/56/___	DCT
158.	_	FSCC	3BN__	5MR____	1MD___	IMF_____	F/S/C/3_/5MR	AFATDS
159.	_	TCO	3BN__	5MR____	1MD___	IMF_____	_/_/_/__/___	MCS
160.	_	IAS_	3BN__	5MR____	1MD___	IMF_____	_/_/_/__/___	ASAS

161.	_	FWD_	3BN__	5MR____	1MD___	IMF_____	F/W/D/3_/5MR	AFATDS
162.	F	TCO_	3BN__	5MR____	1MD___	IMF_____	_/_/_/__/___	MCS
163.	F	IAS_	3BN__	5MR____	1MD___	IMF_____	_/_/_/__/___	ASAS
164.	_	TACP	3BN__	5MR____	1MD___	IMF_____	T/A/C/26/3A5	DCT
165.	_	WPNS	3BN__	5MR____	1MD___	IMF_____	W/P/N/3_/5MR	AFATDS
166.	1	MTR_	3BN__	5MR____	1MD___	IMF_____	1/8/M/3_/5MR	MBC
167.	2	MTR_	3BN__	5MR____	1MD___	IMF_____	2/8/M/3_/5MR	MBC
168.	I	FO57	3BN__	5MR____	1MD___	IMF_____	F/O/I/57/___	DCT
169.	K	FO58	3BN__	5MR____	1MD___	IMF_____	F/O/K/58/___	DCT
170.	L	FO59	3BN__	5MR____	1MD___	IMF_____	F/O/L/59/___	DCT
171.	_	FSCC	_____	7MR____	1MD___	IMF_____	F/S/C/7_/MR_	AFATDS
172.	_	TCO_	_____	7MR____	1MD___	IMF_____	_/_/_/__/___	MCS
173.	_	IAS_	_____	7MR____	1MD___	IMF_____	_/_/_/__/___	ASAS
174.	_	FSCC	FWD__	7MR____	1MD___	IMF_____	F/W/D/7_/MR_	AFATDS
175.	_	TCO	FWD__	7MR____	1MD___	IMF_____	_/_/_/__/___	MCS
176.	_	IAS_	FWD__	7MR____	1MD___	IMF_____	_/_/_/__/___	ASAS
177.	_	FAC_	70___	7MR____	1MD___	IMF_____	F/A/C/70/7MR	DCT
178.	_	FSCC	1BN__	7MR____	1MD___	IMF_____	F/S/C/1_/7MR	AFATDS
179.	_	TCO_	1BN__	7MR____	1MD___	IMF_____	_/_/_/__/___	MCS
180.	_	IAS_	1BN__	7MR____	1MD___	IMF_____	_/_/_/__/___	ASAS
181.	_	FWD_	1BN__	7MR____	1MD___	IMF_____	F/W/D/1_/7MR	AFATDS
182.	F	TCO_	1BN__	7MR____	1MD___	IMF_____	_/_/_/__/___	MCS
183.	F	IAS_	1BN__	7MR____	1MD___	IMF_____	_/_/_/__/___	ASAS
184.	_	TACP	1BN__	7MR____	1MD___	IMF_____	T/A/C/27/1A7	DCT
185.	_	WPNS	1BN__	7MR____	1MD___	IMF_____	W/P/N/1_/7MR	AFATDS
186.	1	MTR_	1BN__	7MR____	1MD___	IMF_____	1/8/M/1_/7MR	MBC
187.	2	MTR_	1BN__	7MR____	1MD___	IMF_____	2/8/M/1_/7MR	MBC
188.	A	FO71	1BN__	7MR____	1MD___	IMF_____	F/O/A/71/___	DCT
189.	B	FO72	1BN__	7MR____	1MD___	IMF_____	F/O/B/72/___	DCT
190.	C	FO73	1BN__	7MR____	1MD___	IMF_____	F/O/C/73/___	DCT
191.	_	FSCC	2BN__	7MR____	1MD___	IMF_____	F/S/C/2_/7MR	AFATDS
192.	_	TCO_	2BN__	7MR____	1MD___	IMF_____	_/_/_/__/___	MCS
193.	_	IAS_	2BN__	7MR____	1MD___	IMF_____	_/_/_/__/___	ASAS
194.	_	FWD_	2BN__	7MR____	1MD___	IMF_____	F/W/D/2_/7MR	AFATDS
195.	F	TCO_	2BN__	7MR____	1MD___	IMF_____	_/_/_/__/___	MCS
196.	F	IAS_	2BN__	7MR____	1MD___	IMF_____	_/_/_/__/___	ASAS
197.	_	TACP	2BN__	7MR____	1MD___	IMF_____	T/A/C/28/2A7	DCT
198.	_	WPNS	2BN__	7MR____	1MD___	IMF_____	W/P/N/2_/7MR	AFATDS
199.	1	MTR_	2BN__	7MR____	1MD___	IMF_____	1/8/M/2_/7MR	MBC
200.	2	MTR_	2BN__	7MR____	1MD___	IMF_____	2/8/M/2_/7MR	MBC
201.	E	FO74	2BN__	7MR____	1MD___	IMF_____	F/O/E/74/___	DCT
202.	F	FO75	2BN__	7MR____	1MD___	IMF_____	F/O/F/75/___	DCT
203.	G	FO76	2BN__	7MR____	1MD___	IMF_____	F/O/G/76/___	DCT
204.	_	FSCC	3BN__	7MR____	1MD___	IMF_____	F/S/C/3_/7MR	AFATDS
205.	_	TCO_	3BN__	7MR____	1MD___	IMF_____	_/_/_/__/___	MCS
206.	_	IAS_	3BN__	7MR____	1MD___	IMF_____	_/_/_/__/___	ASAS
207.	_	FWD_	3BN__	7MR____	1MD___	IMF_____	F/W/D/3_/7MR	AFATDS
208.	F	TCO_	3BN__	7MR____	1MD___	IMF_____	_/_/_/__/___	MCS
209.	F	IAS_	3BN__	7MR____	1MD___	IMF_____	_/_/_/__/___	ASAS
210.	_	TACP	3BN__	7MR____	1MD___	IMF_____	T/A/C/29/3A7	DCT
211.	_	WPNS	3BN__	7MR____	1MD___	IMF_____	W/P/N/3_/7MR	AFATDS
212.	1	MTR_	3BN__	7MR____	1MD___	IMF_____	1/8/M/3_/7MR	MBC
213.	2	MTR_	3BN__	7MR____	1MD___	IMF_____	2/8/M/3_/7MR	MBC
214.	I	FO77	3BN__	7MR____	1MD___	IMF_____	F/O/I/77/___	DCT
215.	K	FO78	3BN__	7MR____	1MD___	IMF_____	F/O/K/78/___	DCT
216.	L	FO79	3BN__	7MR____	1MD___	IMF_____	F/O/L/79/___	DCT
217.	_	FDC_	_____	11MR___	1MD___	IMF_____	F/D/C/11/MR_	AFATDS

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218.  _ TCO_ _____ 11MR___ 1MD___ IMF_______    _/_/_/__/___      MCS
219.  _ IAS_ _____ 11MR___ 1MD___ IMF_______    _/_/_/__/___      ASAS
220.  _ TPC_ _____ 11MR___ 1MD___ IMF_______    T/P/C/11/MR_      AFATDS
221.  _ CBR_ 01___ 11MR___ 1MD___ IMF_______    C/B/R/01/11M      Q-36
222.  _ CBR_ 02___ 11MR___ 1MD___ IMF_______    C/B/R/02/11M      Q-36
223.  _ CBR_ 03___ 11MR___ 1MD___ IMF_______    C/B/R/03/11M      Q-36
224.  _ CBR_ 04___ 11MR___ 1MD___ IMF_______    C/B/R/04/11M      Q-36
225.  _ MET_ 01___ 11MR___ 1MD___ IMF_______    M/E/T/01/11M      MDS
226.  _ MET_ 02___ 11MR___ 1MD___ IMF_______    M/E/T/02/11M      MDS
227.  _ MET_ 03___ 11MR___ 1MD___ IMF_______    M/E/T/03/11M      MDS
228.  _ MET_ 04___ 11MR___ 1MD___ IMF_______    M/E/T/04/11M      MDS
229.  _ FDC_ FWD__ 11MR___ 1MD___ IMF_______    F/W/D/11/MR_      AFATDS
230.  _ TPC_ FWD__ 11MR___ 1MD___ IMF_______    T/P/C/11/FWD      AFATDS
231.  _ TCO_ FWD__ 11MR___ 1MD___ IMF_______    _/_/_/__/___      MCS
232.  _ IAS_ FWD__ 11MR___ 1MD___ IMF_______    _/_/_/__/___      ASAS
233.  _ FDC_ 1BN__ 11MR___ 1MD___ IMF_______    F/D/C/1_/11M      AFATDS
234.  _ TCO_ 1BN__ 11MR___ 1MD___ IMF_______    _/_/_/__/___      MCS
235.  _ IAS_ 1BN__ 11MR___ 1MD___ IMF_______    _/_/_/__/___      ASAS
236.  _ FWD_ 1BN__ 11MR___ 1MD___ IMF_______    F/W/D/1_/11M      AFATDS
237.  F TCO_ 1BN__ 11MR___ 1MD___ IMF_______    _/_/_/__/___      MCS
238.  F IAS_ 1BN__ 11MR___ 1MD___ IMF_______    _/_/_/__/___      ASAS
239.  _ FDCA 1BN__ 11MR___ 1MD___ IMF_______    _/_/A/1_/11M      AFATDS
240.  _ BCSA 1BN__ 11MR___ 1MD___ IMF_______    _/1/A/1_/11M      BCS
241.  _ FDCB 1BN__ 11MR___ 1MD___ IMF_______    _/_/B/1_/11M      AFATDS
242.  _ BCSB 1BN__ 11MR___ 1MD___ IMF_______    _/1/B/1_/11M      BCS
243.  _ FDCC 1BN__ 11MR___ 1MD___ IMF_______    _/_/C/1_/11M      AFATDS
244.  _ BCSC 1BN__ 11MR___ 1MD___ IMF_______    _/1/C/1_/11M      BCS
245.  _ FDCD 1BN__ 11MR___ 1MD___ IMF_______    _/_/D/1_/11M      AFATDS
246.  _ BCSD 1BN__ 11MR___ 1MD___ IMF_______    _/1/D/1_/11M      BCS
247.  _ FDC_ 2BN__ 11MR___ 1MD___ IMF_______    F/D/C/2_/11M      AFATDS
248.  _ TCO_ 2BN__ 11MR___ 1MD___ IMF_______    _/_/_/__/___      MCS
249.  _ IAS_ 2BN__ 11MR___ 1MD___ IMF_______    _/_/_/__/___      ASAS
250.  _ FWD_ 2BN__ 11MR___ 1MD___ IMF_______    F/W/D/2_/11M      AFATDS
251.  F TCO_ 2BN__ 11MR___ 1MD___ IMF_______    _/_/_/__/___      MCS
252.  F IAS_ 2BN__ 11MR___ 1MD___ IMF_______    _/_/_/__/___      ASAS
253.  _ FDCE 2BN__ 11MR___ 1MD___ IMF_______    _/_/E/2_/11M      AFATDS
254.  _ BCSE 2BN__ 11MR___ 1MD___ IMF_______    _/1/E/2_/11M      BCS
255.  _ FDCF 2BN__ 11MR___ 1MD___ IMF_______    _/_/F/2_/11M      AFATDS
256.  _ BCSF 2BN__ 11MR___ 1MD___ IMF_______    _/1/F/2_/11M      BCS
257.  _ FDCG 2BN__ 11MR___ 1MD___ IMF_______    _/_/G/2_/11M      AFATDS
258.  _ BCSG 2BN__ 11MR___ 1MD___ IMF_______    _/1/G/2_/11M      BCS
259.  _ FDCH 2BN__ 11MR___ 1MD___ IMF_______    _/_/H/2_/11M      AFATDS
260.  _ BCSH 2BN__ 11MR___ 1MD___ IMF_______    _/1/H/2_/11M      BCS
261.  _ FDC_ 3BN__ 11MR___ 1MD___ IMF_______    F/D/C/3_/11M      AFATDS
262.  _ TCO_ 3BN__ 11MR___ 1MD___ IMF_______    _/_/_/__/___      MCS
263.  _ IAS_ 3BN__ 11MR___ 1MD___ IMF_______    _/_/_/__/___      ASAS
264.  _ FWD_ 3BN__ 11MR___ 1MD___ IMF_______    F/W/D/3_/11M      AFATDS
265.  F TCO_ 3BN__ 11MR___ 1MD___ IMF_______    _/_/_/__/___      MCS
266.  F IAS_ 3BN__ 11MR___ 1MD___ IMF_______    _/_/_/__/___      ASAS
267.  _ FDCI 3BN__ 11MR___ 1MD___ IMF_______    _/_/I/3_/11M      AFATDS
268.  _ BCSI 3BN__ 11MR___ 1MD___ IMF_______    _/1/I/3_/11M      BCS
269.  _ FDCK 3BN__ 11MR___ 1MD___ IMF_______    _/_/K/3_/11M      AFATDS
270.  _ BCSK 3BN__ 11MR___ 1MD___ IMF_______    _/1/K/3_/11M      BCS
271.  _ FDCL 3BN__ 11MR___ 1MD___ IMF_______    _/_/L/3_/11M      AFATDS
272.  _ BCSL 3BN__ 11MR___ 1MD___ IMF_______    _/1/L/3_/11M      BCS
273.  _ FDCM 3BN__ 11MR___ 1MD___ IMF_______    _/_/M/3_/11M      AFATDS
274.  _ BCSM 3BN__ 11MR___ 1MD___ IMF_______    _/1/M/3_/11M      BCS
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275.  _ FDC_ 4BN__ 11MR___ 1MD___ IMF_______    F/D/C/4_/11M      AFATDS
276.  _ TCO_ 4BN__ 11MR___ 1MD___ IMF_______    _/_/_/__/___      MCS
277.  _ IAS_ 4BN__ 11MR___ 1MD___ IMF_______    _/_/_/__/___      ASAS
278.  _ FWD_ 4BN__ 11MR___ 1MD___ IMF_______    F/W/D/4_/11M      AFATDS
279.  F TCO_ 4BN__ 11MR___ 1MD___ IMF_______    _/_/_/__/___      MCS
280.  F IAS_ 4BN__ 11MR___ 1MD___ IMF_______    _/_/_/__/___      ASAS
281.  _ FDCN 4BN__ 11MR___ 1MD___ IMF_______    _/_/N/4_/11M      AFATDS
282.  _ BCSN 4BN__ 11MR___ 1MD___ IMF_______    _/1/N/4_/11M      BCS
283.  _ FDCO 4BN__ 11MR___ 1MD___ IMF_______    _/_/O/4_/11M      AFATDS
284.  _ BCSO 4BN__ 11MR___ 1MD___ IMF_______    _/1/O/4_/11M      BCS
285.  _ FDCP 4BN__ 11MR___ 1MD___ IMF_______    _/_/P/4_/11M      AFATDS
286.  _ BCSP 4BN__ 11MR___ 1MD___ IMF_______    _/1/P/4_/11M      BCS
287.  _ FDCQ 4BN__ 11MR___ 1MD___ IMF_______    _/_/Q/4_/11M      AFATDS
288.  _ BCSQ 4BN__ 11MR___ 1MD___ IMF_______    _/1/Q/4_/11M      BCS
289.  _ FDC_ 5BN__ 11MR___ 1MD___ IMF_______    F/D/C/5_/11M      AFATDS
290.  _ TCO_ 5BN__ 11MR___ 1MD___ IMF_______    _/_/_/__/___      MCS
291.  _ IAS_ 5BN__ 11MR___ 1MD___ IMF_______    _/_/_/__/___      ASAS
292.  _ FWD_ 5BN__ 11MR___ 1MD___ IMF_______    F/W/D/5_/11M      AFATDS
293.  F TCO_ 5BN__ 11MR___ 1MD___ IMF_______    _/_/_/__/___      MCS
294.  F IAS_ 5BN__ 11MR___ 1MD___ IMF_______    _/_/_/__/___      ASAS
295.  _ FDCR 5BN__ 11MR___ 1MD___ IMF_______    _/_/R/5_/11M      AFATDS
296.  _ BCSR 5BN__ 11MR___ 1MD___ IMF_______    _/1/R/5_/11M      BCS
297.  _ FDCS 5BN__ 11MR___ 1MD___ IMF_______    _/_/S/5_/11M      AFATDS
298.  _ BCSS 5BN__ 11MR___ 1MD___ IMF_______    _/1/S/5_/11M      BCS
299.  _ FDCT 5BN__ 11MR___ 1MD___ IMF_______    _/_/T/5_/11M      AFATDS
300.  _ BCST 5BN__ 11MR___ 1MD___ IMF_______    _/1/T/5_/11M      BCS
301.  _ FDCU 5BN__ 11MR___ 1MD___ IMF_______    _/_/U/5_/11M      AFATDS
302.  _ BCSU 5BN__ 11MR___ 1MD___ IMF_______    _/1/U/5_/11M      BCS
303.  _ FFCC _____ _______ ______ 11MU______    F/F/C/11/MU_      AFATDS
304.  _ TCO_ _____ _______ ______ 11MU______    _/_/_/__/___      MCS
305.  _ IAS_ _____ _______ ______ 11MU______    _/_/_/__/___      ASAS
306.  _ FFCC FWD__ _______ ______ 11MU______    F/W/D/11/MU_      AFATDS
307.  _ TCO  FWD__ _______ ______ 11MU______    _/_/_/__/___      MCS
308.  _ IAS_ FWD__ _______ ______ 11MU______    _/_/_/__/___      ASAS
309.  _ FFCC _____ _______ ______ 13MU______    F/F/C/13/MU_      AFATDS
310.  _ TCO_ _____ _______ ______ 13MU______    _/_/_/__/___      MCS
311.  _ IAS_ _____ _______ ______ 13MU______    _/_/_/__/___      ASAS
312.  _ FFCC FWD__ _______ ______ 13MU______    F/W/D/13/MU_      AFATDS
313.  _ TCO  FWD__ _______ ______ 13MU______    _/_/_/__/___      MCS
314.  _ IAS_ FWD__ _______ ______ 13MU______    _/_/_/__/___      ASAS
315.  _ FFCC _____ _______ ______ 15MU______    F/F/C/15/MU_      AFATDS
316.  _ TCO_ _____ _______ ______ 15MU______    _/_/_/__/___      MCS
317.  _ IAS_ _____ _______ ______ 15MU______    _/_/_/__/___      ASAS
318.  _ FFCC FWD__ _______ ______ 15MU______    F/W/D/15/MU_      AFATDS
319.  _ TCO  FWD__ _______ ______ 15MU______    _/_/_/__/___      MCS
320.  _ IAS_ FWD__ _______ ______ 15MU______    _/_/_/__/___      ASAS
321.  _ FFCC _____ _______ ______ IIMF______    F/F/C/2_/MF_      AFATDS
322.  _ TCO_ _____ _______ ______ IIMF______    _/_/_/__/___      MCS
323.  _ IAS_ _____ _______ ______ IIMF______    _/_/_/__/___      ASAS
324.  _ FFCC FWD__ _______ ______ IIMF______    F/W/D/2_/MF_      AFATDS
325.  _ TCO_ FWD__ _______ ______ IIMF______    _/_/_/__/___      MCS
326.  _ IAS_ FWD__ _______ ANGLIC IIMF______    _/_/_/__/___      ASAS
327.  _ CP__ _____ 2D-____ ANGLIC IIMF______    A/N/G/2_/MF_      AFATDS
328.  _ CP__ FWD__ 2D-____ ANGLIC IIMF______    F/W/D/2_/ANG      AFATDS
329.  _ 1BDE _____ 2D-____ ANGLIC IIMF______    A/N/G/2_/BD1      AFATDS
330.  _ 1BDE FWD__ 2D-____ ANGLIC IIMF______    F/W/D/2_/BD1      AFATDS
331.  1 SALT 1BDE_ 2D-____ ANGLIC IIMF______    S/A/L/1_/1M2      DCT
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332.	2	SALT	1BDE_	2D-____	ANGLIC	IIMF_____	S/A/L/2_/1M2	DCT
333.	3	SALT	1BDE_	2D-____	ANGLIC	IIMF_____	S/A/L/3_/1M2	DCT
334.	_	2BDE	_____	2D-____	ANGLIC	IIMF_____	A/N/G/2_/BD2	AFATDS
335.	_	2BDE	FWD__	2D-____	ANGLIC	IIMF_____	F/W/D/2_/BD2	AFATDS
336.	1	SALT	2BDE_	2D-____	ANGLIC	IIMF_____	S/A/L/1_/2M2	DCT
337.	2	SALT	2BDE_	2D-____	ANGLIC	IIMF_____	S/A/L/2_/2M2	DCT
338.	3	SALT	2BDE_	2D-____	ANGLIC	IIMF_____	S/A/L/3_/2M2	DCT
339.	_	3BDE	_____	2D-____	ANGLIC	IIMF_____	A/N/G/2_/BD3	AFATDS
340.	_	3BDE	FWD__	2D-____	ANGLIC	IIMF_____	F/W/D/2_/BD3	AFATDS
341.	1	SALT	3BDE_	2D-____	ANGLIC	IIMF_____	S/A/L/1_/3M2	DCT
342.	2	SALT	3BDE_	2D-____	ANGLIC	IIMF_____	S/A/L/2_/3M2	DCT
343.	3	SALT	3BDE_	2D-____	ANGLIC	IIMF_____	S/A/L/3_/3M2	DCT
344.	_	CP__	_____	2DVMU__	2AW___	IIMF_____	V/M/U/2_/2AW	AFATDS
345.	_	CP__	FWD__	2DVMU__	2AW___	IIMF_____	F/W/D/2_/VMU	AFATDS
346.	_	FO05	_____	2DVMU__	2AW___	IIMF_____	V/M/U/05/2AW	DCT
347.	_	FO06	_____	2DVMU__	2AW___	IIMF_____	V/M/U/06/2AW	DCT
348.	_	FO07	_____	2DVMU__	2AW___	IIMF_____	V/M/U/07/2AW	DCT
349.	_	FO08	_____	2DVMU__	2AW___	IIMF_____	V/M/U/08/2AW	DCT
350.	_	____	_____	MAG_21_	2AW___	IIMF_____	_/_/_/__/___	AIR
351.	_	____	_____	MAG_24_	2AW___	IIMF_____	_/_/_/__/___	AIR
352.	_	____	_____	MAG_27_	2AW___	IIMF_____	_/_/_/__/___	AIR
353.	_	FSCC	_____	_____	2MD___	IIMF_____	F/S/C/2_/MD_	AFATDS
354.	_	TCO	_____	_____	2MD___	IIMF_____	_/_/_/__/___	MCS
355.	_	IAS_	_____	_____	2MD___	IIMF_____	_/_/_/__/___	ASAS
356.	_	FSCC	FWD__	_____	2MD___	IIMF_____	F/W/D/2_/MD_	AFATDS
357.	_	TCO	FWD__	_____	2MD___	IIMF_____	_/_/_/__/___	MCS
358.	_	IAS_	FWD__	_____	2MD___	IIMF_____	_/_/_/__/___	ASAS
359.	_	RAOC	_____	2FSSG__	2MD___	IIMF_____	R/O/C/2_/FSG	AFATDS
360.	_	DASC	_____	_____	2AW___	IIMF_____	D/A/S/2_/AW_	AFATDS
361.	_	DASC	_____	CTAPS__	2AW___	IIMF_____	_/_/_/__/___	MCS
362.	_	DASC	_____	TCO____	2AW___	IIMF_____	_/_/_/__/___	MCS
363.	_	DASC	_____	IAS____	2AW___	IIMF_____	_/_/_/__/___	ASAS
364.	_	DASC	FWD__	_____	2AW___	IIMF_____	F/W/D/2_/DAS	AFATDS
365.	_	DASC	FWD__	CTAPS__	2AW___	IIMF_____	_/_/_/__/___	MCS
366.	_	DASC	FWD__	TCO____	2AW___	IIMF_____	_/_/_/__/___	MCS
367.	_	DASC	FWD__	IAS____	2AW___	IIMF_____	_/_/_/__/___	ASAS
368.	_	TACC	_____	_____	2AW___	IIMF_____	T/A/C/2_/AW	AFATDS
369.	_	TACC	_____	CTAPS__	2AW___	IIMF_____	_/_/_/__/___	MCS
370.	_	TACC	_____	TCO____	2AW___	IIMF_____	_/_/_/__/___	MCS
371.	_	TACC	_____	IAS____	2AW___	IIMF_____	_/_/_/__/___	ASAS
372.	_	TACC	FWD__	_____	2AW___	IIMF_____	T/A/C/2_/FWD	AFATDS
373.	_	TACC	FWD__	CTAPS__	2AW___	IIMF_____	_/_/_/__/___	MCS
374.	_	TACC	FWD__	TCO____	2AW___	IIMF_____	_/_/_/__/___	MCS
375.	_	TACC	FWD__	IAS____	2AW___	IIMF_____	_/_/_/__/___	ASAS
376.	_	FSCC	_____	2LA____	2MD___	IIMF_____	F/S/C/2_/LA_	AFATDS
377.	_	TCO_	_____	2LA____	2MD___	IIMF_____	_/_/_/__/___	MCS
378.	_	IAS_	_____	2LA____	2MD___	IIMF_____	_/_/_/__/___	ASAS
379.	_	FSCC	FWD__	2LA____	2MD___	IIMF_____	F/W/D/2_/LA_	AFATDS
380.	_	TCO_	FWD__	2LA____	2MD___	IIMF_____	_/_/_/__/___	MCS
381.	_	IAS_	FWD__	2LA____	2MD___	IIMF_____	_/_/_/__/___	ASAS
382.	1	MTR1	CO_A_	2LA____	2MD___	IIMF_____	1/1/A/20/2LA	MBC
383.	_	FO01	CO_A_	2LA____	2MD___	IIMF_____	F/O/A/01/2LA	DCT
384.	2	MTR1	CO_B_	2LA____	2MD___	IIMF_____	2/1/B/20/2LA	MBC
385.	_	FO02	CO_B_	2LA____	2MD___	IIMF_____	F/O/B/02/2LA	DCT
386.	3	MTR1	CO_C_	2LA____	2MD___	IIMF_____	3/1/C/20/2LA	MBC
387.	_	FO03	CO_C_	2LA____	2MD___	IIMF_____	F/O/C/03/2LA	DCT
388.	4	MTR1	CO_D_	2LA____	2MD___	IIMF_____	4/1/D/20/2LA	MBC

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389.  _ FO04 CO_D_ 2LA____ 2MD___ IIMF______    F/O/D/04/2LA      DCT
390.  _ FSCC _____ 3TK____ 2MD___ IIMF______    F/S/C/3_/TK_      AFATDS
391.  _ TCO_ _____ 3TK____ 2MD___ IIMF______    _/_/_/__/___      MCS
392.  _ IAS_ _____ 3TK____ 2MD___ IIMF______    _/_/_/__/___      ASAS
393.  _ FO05 CO_A_ 3TK____ 2MD___ IIMF______    F/O/A/05/3TK      DCT
394.  _ FO06 CO_B_ 3TK____ 2MD___ IIMF______    F/O/B/06/3TK      DCT
395.  _ FO07 CO_C_ 3TK____ 2MD___ IIMF______    F/O/C/07/3TK      DCT
396.  _ FO08 CO_D_ 3TK____ 2MD___ IIMF______    F/O/D/08/3TK      DCT
397.  _ FSCC _____ 2MR____ 2MD___ IIMF______    F/S/C/2_/MR_      AFATDS
398.  _ TCO_ _____ 2MR____ 2MD___ IIMF______    _/_/_/__/___      MCS
399.  _ IAS_ _____ 2MR____ 2MD___ IIMF______    _/_/_/__/___      ASAS
400.  _ FSCC FWD__ 2MR____ 2MD___ IIMF______    F/W/D/2_/MR_      AFATDS
401.  _ TCO  FWD__ 2MR____ 2MD___ IIMF______    _/_/_/__/___      MCS
402.  _ IAS_ FWD__ 2MR____ 2MD___ IIMF______    _/_/_/__/___      ASAS
403.  _ FAC_ 20___ 2MR____ 2MD___ IIMF______    F/A/C/20/2MR      DCT
404.  _ FSCC 1BN__ 2MR____ 2MD___ IIMF______    F/S/C/1_/2MR      AFATDS
405.  _ TCO_ 1BN__ 2MR____ 2MD___ IIMF______    _/_/_/__/___      MCS
406.  _ IAS_ 1BN__ 2MR____ 2MD___ IIMF______    _/_/_/__/___      ASAS
407.  _ FWD_ 1BN__ 2MR____ 2MD___ IIMF______    F/W/D/1_/2MR      AFATDS
408.  F TCO_ 1BN__ 2MR____ 2MD___ IIMF______    _/_/_/__/___      MCS
409.  F IAS_ 1BN__ 2MR____ 2MD___ IIMF______    _/_/_/__/___      ASAS
410.  _ TACP 1BN__ 2MR____ 2MD___ IIMF______    T/A/C/31/1A2      DCT
411.  _ WPNS 1BN__ 2MR____ 2MD___ IIMF______    W/P/N/1_/2MR      AFATDS
412.  1 MTR_ 1BN__ 2MR____ 2MD___ IIMF______    1/8/M/1_/2MR      MBC
413.  2 MTR_ 1BN__ 2MR____ 2MD___ IIMF______    2/8/M/1_/2MR      MBC
414.  A FO21 1BN__ 2MR____ 2MD___ IIMF______    F/O/A/21/___      DCT
415.  B FO22 1BN__ 2MR____ 2MD___ IIMF______    F/O/B/22/___      DCT
416.  C FO23 1BN__ 2MR____ 2MD___ IIMF______    F/O/C/23/___      DCT
417.  _ FSCC 2BN__ 2MR____ 2MD___ IIMF______    F/S/C/2_/2MR      AFATDS
418.  _ TCO  2BN__ 2MR____ 2MD___ IIMF______    _/_/_/__/___      MCS
419.  _ IAS_ 2BN__ 2MR____ 2MD___ IIMF______    _/_/_/__/___      ASAS
420.  _ FWD_ 2BN__ 2MR____ 2MD___ IIMF______    F/W/D/2_/2MR      AFATDS
421.  F TCO  2BN__ 2MR____ 2MD___ IIMF______    _/_/_/__/___      MCS
422.  F IAS_ 2BN__ 2MR____ 2MD___ IIMF______    _/_/_/__/___      ASAS
423.  _ TACP 2BN__ 2MR____ 2MD___ IIMF______    T/A/C/32/2A2      DCT
424.  _ WPNS 2BN__ 2MR____ 2MD___ IIMF______    W/P/N/2_/2MR      AFATDS
425.  1 MTR_ 2BN__ 2MR____ 2MD___ IIMF______    1/8/M/2_/2MR      MBC
426.  2 MTR_ 2BN__ 2MR____ 2MD___ IIMF______    2/8/M/2_/2MR      MBC
427.  E FO24 2BN__ 2MR____ 2MD___ IIMF______    F/O/E/24/___      DCT
428.  F FO25 2BN__ 2MR____ 2MD___ IIMF______    F/O/F/25/___      DCT
429.  G FO26 2BN__ 2MR____ 2MD___ IIMF______    F/O/G/26/___      DCT
430.  _ FSCC 3BN__ 2MR____ 2MD___ IIMF______    F/S/C/3_/2MR      AFATDS
431.  _ TCO  3BN__ 2MR____ 2MD___ IIMF______    _/_/_/__/___      MCS
432.  _ IAS_ 3BN__ 2MR____ 2MD___ IIMF______    _/_/_/__/___      ASAS
433.  _ FWD_ 3BN__ 2MR____ 2MD___ IIMF______    F/W/D/3_/2MR      AFATDS
434.  F TCO  3BN__ 2MR____ 2MD___ IIMF______    _/_/_/__/___      MCS
435.  F IAS_ 3BN__ 2MR____ 2MD___ IIMF______    _/_/_/__/___      ASAS
436.  _ TACP 3BN__ 2MR____ 2MD___ IIMF______    T/A/C/33/3A2      DCT
437.  _ WPNS 3BN__ 2MR____ 2MD___ IIMF______    W/P/N/3_/2MR      AFATDS
438.  1 MTR_ 3BN__ 2MR____ 2MD___ IIMF______    1/8/M/3_/2MR      MBC
439.  2 MTR_ 3BN__ 2MR____ 2MD___ IIMF______    2/8/M/3_/2MR      MBC
440.  I FO27 3BN__ 2MR____ 2MD___ IIMF______    F/O/I/27/___      DCT
441.  K FO28 3BN__ 2MR____ 2MD___ IIMF______    F/O/K/28/___      DCT
442.  L FO29 3BN__ 2MR____ 2MD___ IIMF______    F/O/L/29/___      DCT
443.  _ FSCC _____ 6MR____ 2MD___ IIMF______    F/S/C/6_/MR_      AFATDS
444.  _ TCO_ _____ 6MR____ 2MD___ IIMF______    _/_/_/__/___      MCS
445.  _ IAS_ _____ 6MR____ 2MD___ IIMF______    _/_/_/__/___      ASAS
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446.  _ FSCC FWD__ 6MR____ 2MD___ IIMF______    F/W/D/6_/MR_      AFATDS
447.  _ TCO  FWD__ 6MR____ 2MD___ IIMF______    _/_/_/__/___      MCS
448.  _ IAS_ FWD__ 6MR____ 2MD___ IIMF______    _/_/_/__/___      ASAS
449.  _ FAC_ 60___ 6MR____ 2MD___ IIMF______    F/A/C/60/6MR      DCT
450.  _ FSCC 1BN__ 6MR____ 2MD___ IIMF______    F/S/C/1_/6MR      AFATDS
451.  _ TCO_ 1BN__ 6MR____ 2MD___ IIMF______    _/_/_/__/___      MCS
452.  _ IAS_ 1BN__ 6MR____ 2MD___ IIMF______    _/_/_/__/___      ASAS
453.  _ FWD_ 1BN__ 6MR____ 2MD___ IIMF______    F/W/D/1_/6MR      AFATDS
454.  F TCO_ 1BN__ 6MR____ 2MD___ IIMF______    _/_/_/__/___      MCS
455.  F IAS_ 1BN__ 6MR____ 2MD___ IIMF______    _/_/_/__/___      ASAS
456.  _ TACP 1BN__ 6MR____ 2MD___ IIMF______    T/A/C/34/1A6      DCT
457.  _ WPNS 1BN__ 6MR____ 2MD___ IIMF______    W/P/N/1_/6MR      AFATDS
458.  1 MTR_ 1BN__ 6MR____ 2MD___ IIMF______    1/8/M/1_/6MR      MBC
459.  2 MTR_ 1BN__ 6MR____ 2MD___ IIMF______    2/8/M/1_/6MR      MBC
460.  A FO61 1BN__ 6MR____ 2MD___ IIMF______    F/O/A/61/___      DCT
461.  B FO62 1BN__ 6MR____ 2MD___ IIMF______    F/O/B/62/___      DCT
462.  C FO63 1BN__ 6MR____ 2MD___ IIMF______    F/O/C/63/___      DCT
463.  _ FSCC 2BN__ 6MR____ 2MD___ IIMF______    F/S/C/2_/6MR      AFATDS
464.  _ TCO_ 2BN__ 6MR____ 2MD___ IIMF______    _/_/_/__/___      MCS
465.  _ IAS_ 2BN__ 6MR____ 2MD___ IIMF______    _/_/_/__/___      ASAS
466.  _ FWD_ 2BN__ 6MR____ 2MD___ IIMF______    F/W/D/2_/6MR      AFATDS
467.  F TCO  2BN__ 6MR____ 2MD___ IIMF______    _/_/_/__/___      MCS
468.  F IAS_ 2BN__ 6MR____ 2MD___ IIMF______    _/_/_/__/___      ASAS
469.  _ TACP 2BN__ 6MR____ 2MD___ IIMF______    T/A/C/35/2A6      DCT
470.  _ WPNS 2BN__ 6MR____ 2MD___ IIMF______    W/P/N/2_/6MR      AFATDS
471.  1 MTR_ 2BN__ 6MR____ 2MD___ IIMF______    1/8/M/2_/6MR      MBC
472.  2 MTR_ 2BN__ 6MR____ 2MD___ IIMF______    2/8/M/2_/6MR      MBC
473.  E FO64 2BN__ 6MR____ 2MD___ IIMF______    F/O/E/64/___      DCT
474.  F FO65 2BN__ 6MR____ 2MD___ IIMF______    F/O/F/65/___      DCT
475.  G FO66 2BN__ 6MR____ 2MD___ IIMF______    F/O/G/66/___      DCT
476.  _ FSCC 3BN__ 6MR____ 2MD___ IIMF______    F/S/C/3_/6MR      AFATDS
477.  _ TCO_ 3BN__ 6MR____ 2MD___ IIMF______    _/_/_/__/___      MCS
478.  _ IAS_ 3BN__ 6MR____ 2MD___ IIMF______    _/_/_/__/___      ASAS
479.  _ FWD_ 3BN__ 6MR____ 2MD___ IIMF______    F/W/D/3_/6MR      AFATDS
480.  F TCO  3BN__ 6MR____ 2MD___ IIMF______    _/_/_/__/___      MCS
481.  F IAS_ 3BN__ 6MR____ 2MD___ IIMF______    _/_/_/__/___      ASAS
482.  _ TACP 3BN__ 6MR____ 2MD___ IIMF______    T/A/C/36/3A6      DCT
483.  _ WPNS 3BN__ 6MR____ 2MD___ IIMF______    W/P/N/3_/6MR      AFATDS
484.  1 MTR_ 3BN__ 6MR____ 2MD___ IIMF______    1/8/M/3_/6MR      MBC
485.  2 MTR_ 3BN__ 6MR____ 2MD___ IIMF______    2/8/M/3_/6MR      MBC
486.  I FO67 3BN__ 6MR____ 2MD___ IIMF______    F/O/I/67/___      DCT
487.  K FO68 3BN__ 6MR____ 2MD___ IIMF______    F/O/K/68/___      DCT
488.  L FO69 3BN__ 6MR____ 2MD___ IIMF______    F/O/L/69/___      DCT
489.  _ FSCC _____ 8MR____ 2MD___ IIMF______    F/S/C/8_/MR_      AFATDS
490.  _ TCO_ _____ 8MR____ 2MD___ IIMF______    _/_/_/__/___      MCS
491.  _ IAS_ _____ 8MR____ 2MD___ IIMF______    _/_/_/__/___      ASAS
492.  _ FSCC FWD__ 8MR____ 2MD___ IIMF______    F/W/D/8_/MR_      AFATDS
493.  _ TCO  FWD__ 8MR____ 2MD___ IIMF______    _/_/_/__/___      MCS
494.  _ IAS_ FWD__ 8MR____ 2MD___ IIMF______    _/_/_/__/___      ASAS
495.  _ FAC_ 80___ 8MR____ 2MD___ IIMF______    F/A/C/80/8MR      DCT
496.  _ FSCC 1BN__ 8MR____ 2MD___ IIMF______    F/S/C/1_/8MR      AFATDS
497.  _ TCO_ 1BN__ 8MR____ 2MD___ IIMF______    _/_/_/__/___      MCS
498.  _ IAS_ 1BN__ 8MR____ 2MD___ IIMF______    _/_/_/__/___      ASAS
499.  _ FWD_ 1BN__ 8MR____ 2MD___ IIMF______    F/W/D/1_/8MR      AFATDS
500.  F TCO_ 1BN__ 8MR____ 2MD___ IIMF______    _/_/_/__/___      MCS
501.  F IAS_ 1BN__ 8MR____ 2MD___ IIMF______    _/_/_/__/___      ASAS
502.  _ TACP 1BN__ 8MR____ 2MD___ IIMF______    T/A/C/37/1A8      DCT
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503.  _ WPNS 1BN__ 8MR____ 2MD___ IIMF______    W/P/N/1_/8MR      AFATDS
504.  1 MTR_ 1BN__ 8MR____ 2MD___ IIMF______    1/8/M/1_/8MR      MBC
505.  2 MTR_ 1BN__ 8MR____ 2MD___ IIMF______    2/8/M/1_/8MR      MBC
506.  A FO81 1BN__ 8MR____ 2MD___ IIMF______    F/O/A/81/___      DCT
507.  B FO82 1BN__ 8MR____ 2MD___ IIMF______    F/O/B/82/___      DCT
508.  C FO83 1BN__ 8MR____ 2MD___ IIMF______    F/O/C/83/___      DCT
509.  _ FSCC 2BN__ 8MR____ 2MD___ IIMF______    F/S/C/2_/8MR      AFATDS
510.  _ TCO_ 2BN__ 8MR____ 2MD___ IIMF______    _/_/_/__/___      MCS
511.    _IAS_  2BN__ 8MR____ 2MD___ IIMF______  _/_/_/__/___      ASAS
512.    _FWD   2BN  _8MR____ 2MD___ IIMF______  F/W/D/2_/8MR      AFATDS
513.  F TCO_ 2BN__ 8MR____ 2MD___ IIMF______    _/_/_/__/___      MCS
514.  F IAS_ 2BN__ 8MR____ 2MD___ IIMF______    _/_/_/__/___      ASAS
515.  _ TACP 2BN__ 8MR____ 2MD___ IIMF______    T/A/C/38/2A8      DCT
516.  _ WPNS 2BN__ 8MR____ 2MD___ IIMF______    W/P/N/2_/8MR      AFATDS
517.  1 MTR_ 2BN__ 8MR____ 2MD___ IIMF______    1/8/M/2_/8MR      MBC
518.  2 MTR_ 2BN__ 8MR____ 2MD___ IIMF______    2/8/M/2_/8MR      MBC
519.  E FO84 2BN__ 8MR____ 2MD___ IIMF______    F/O/E/84/___      DCT
520.  F FO85 2BN__ 8MR____ 2MD___ IIMF______    F/O/F/85/___      DCT
521.  G FO86 2BN__ 8MR____ 2MD___ IIMF______    F/O/G/86/___      DCT
522.  _ FSCC 3BN__ 8MR____ 2MD___ IIMF______    F/S/C/3_/8MR      AFATDS
523.  _ TCO  3BN__ 8MR____ 2MD___ IIMF______    _/_/_/__/___      MCS
524.  _ IAS_ 3BN__ 8MR____ 2MD___ IIMF______    _/_/_/__/___      ASAS
525.  _ FWD_ 3BN__ 8MR____ 2MD___ IIMF______    F/W/D/3_/8MR      AFATDS
526.  F TCO  3BN__ 8MR____ 2MD___ IIMF______    _/_/_/__/___      MCS
527.  F IAS_ 3BN__ 8MR____ 2MD___ IIMF______    _/_/_/__/___      ASAS
528.  _ TACP 3BN__ 8MR____ 2MD___ IIMF______    T/A/C/39/3A8      DCT
529.  _ WPNS 3BN__ 8MR____ 2MD___ IIMF______    W/P/N/3_/8MR      AFATDS
530.  1 MTR_ 3BN__ 8MR____ 2MD___ IIMF______    1/8/M/3_/8MR      MBC
531.  2 MTR_ 3BN__ 8MR____ 2MD___ IIMF______    2/8/M/3_/8MR      MBC
532.  I FO87 3BN__ 8MR____ 2MD___ IIMF______    F/O/I/87/___      DCT
533.  K FO88 3BN__ 8MR____ 2MD___ IIMF______    F/O/K/88/___      DCT
534.  L FO89 3BN__ 8MR____ 2MD___ IIMF______    F/O/L/89/___      DCT
535.  _ FDC_ _____ 10MR___ 2MD___ IIMF______    F/D/C/10/MR_      AFATDS
536.  _ TCO_ _____ 10MR___ 2MD___ IIMF______    _/_/_/__/___      MCS
537.  _ IAS_ _____ 10MR___ 2MD___ IIMF______    _/_/_/__/___      ASAS
538.  _ TPC_ _____ 10MR___ 2MD___ IIMF______    T/P/C/10/MR_      AFATDS
539.  _ TPC_ FWD__ 10MR___ 2MD___ IIMF______    F/W/D/10/TPC      AFATDS
540.  _ CBR_ 01___ 10MR___ 2MD___ IIMF______    C/B/R/01/10M      Q-36
541.  _ CBR_ 02___ 10MR___ 2MD___ IIMF______    C/B/R/02/10M      Q-36
542.  _ CBR_ 03___ 10MR___ 2MD___ IIMF______    C/B/R/03/10M      Q-36
543.  _ CBR_ 04___ 10MR___ 2MD___ IIMF______    C/B/R/04/10M      Q-36
544.  _ MET_ 01___ 10MR___ 2MD___ IIMF______    M/E/T/01/10M      MDS
545.  _ MET_ 02___ 10MR___ 2MD___ IIMF______    M/E/T/02/10M      MDS
546.  _ MET_ 03___ 10MR___ 2MD___ IIMF______    M/E/T/03/10M      MDS
547.  _ MET_ 04___ 10MR___ 2MD___ IIMF______    M/E/T/04/10M      MDS
548.  _ FDC_ FWD__ 10MR___ 2MD___ IIMF______    F/W/D/10/MR_      AFATDS
549.  _ TCO_ FWD__ 10MR___ 2MD___ IIMF______    _/_/_/__/___      MCS
550.  _ IAS_ FWD__ 10MR___ 2MD___ IIMF______    _/_/_/__/___      ASAS
551.  _ FDC_ 1BN__ 10MR___ 2MD___ IIMF______    F/D/C/1_/10M      AFATDS
552.  _ TCO_ 1BN__ 10MR___ 2MD___ IIMF______    _/_/_/__/___      MCS
553.  _ IAS_ 1BN__ 10MR___ 2MD___ IIMF______    _/_/_/__/___      ASAS
554.  _ FWD_ 1BN__ 10MR___ 2MD___ IIMF______    F/W/D/1_/10M      AFATDS
555.  F TCO_ 1BN__ 10MR___ 2MD___ IIMF______    _/_/_/__/___      MCS
556.  F IAS_ 1BN__ 10MR___ 2MD___ IIMF______    _/_/_/__/___      ASAS
557.  _ FDCA 1BN__ 10MR___ 2MD___ IIMF______    _/_/A/1_/10M      AFATDS
558.  _ BCSA 1BN__ 10MR___ 2MD___ IIMF______    _/1/A/1_/10M      BCS
559.  _ FDCB 1BN__ 10MR___ 2MD___ IIMF______    _/_/B/1_/10M      AFATDS
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560.  _ BCSB 1BN__ 10MR___ 2MD___ IIMF______    _/1/B/1_/10M      BCS
561.  _ FDCC 1BN__ 10MR___ 2MD___ IIMF______    _/_/C/1_/10M      AFATDS
562.  _ BCSC 1BN__ 10MR___ 2MD___ IIMF______    _/1/C/1_/10M      BCS
563.  _ FDCD 1BN__ 10MR___ 2MD___ IIMF______    _/_/D/1_/10M      AFATDS
564.  _ BCSD 1BN__ 10MR___ 2MD___ IIMF______    _/1/D/1_/10M      BCS
565.  _ FDC_ 2BN__ 10MR___ 2MD___ IIMF______    F/D/C/2_/10M      AFATDS
566.  _ TCO_ 2BN__ 10MR___ 2MD___ IIMF______    _/_/_/__/___      MCS
567.  _ IAS_ 2BN__ 10MR___ 2MD___ IIMF______    _/_/_/__/___      ASAS
568.  _ FWD_ 2BN__ 10MR___ 2MD___ IIMF______    F/W/D/2_/10M      AFATDS
569.  F TCO_ 2BN__ 10MR___ 2MD___ IIMF______    _/_/_/__/___      MCS
570.  F IAS_ 2BN__ 10MR___ 2MD___ IIMF______    _/_/_/__/___      ASAS
571.  _ FDCE 2BN__ 10MR___ 2MD___ IIMF______    _/_/E/2_/10M      AFATDS
572.  _ BCSE 2BN__ 10MR___ 2MD___ IIMF______    _/1/E/2_/10M      BCS
573.  _ FDCF 2BN__ 10MR___ 2MD___ IIMF______    _/_/F/2_/10M      AFATDS
574.  _ BCSF 2BN__ 10MR___ 2MD___ IIMF______    _/1/F/2_/10M      BCS
575.  _ FDCG 2BN__ 10MR___ 2MD___ IIMF______    _/_/G/2_/10M      AFATDS
576.  _ BCSG 2BN__ 10MR___ 2MD___ IIMF______    _/1/G/2_/10M      BCS
577.  _ FDCH 2BN__ 10MR___ 2MD___ IIMF______    _/_/H/2_/10M      AFATDS
578.    _ BCSH 2BN__ 10MR___ 2MD___ IIMF______  _/1/H/2_/10M      BCS
579.  _ FDC_ 3BN__ 10MR___ 2MD___ IIMF______    F/D/C/3_/10M      AFATDS
580.  _ TCO_ 3BN__ 10MR___ 2MD___ IIMF______    _/_/_/__/___      MCS
581.  _ IAS_ 3BN__ 10MR___ 2MD___ IIMF______    _/_/_/__/___      ASAS
582.  _ FWD_ 3BN__ 10MR___ 2MD___ IIMF______    F/W/D/3_/10M      AFATDS
583.  F TCO_ 3BN__ 10MR___ 2MD___ IIMF______    _/_/_/__/___      MCS
584.  F IAS_ 3BN__ 10MR___ 2MD___ IIMF______    _/_/_/__/___      ASAS
585.  _ FDCI 3BN__ 10MR___ 2MD___ IIMF______    _/_/I/3_/10M      AFATDS
586.  _ BCSI 3BN__ 10MR___ 2MD___ IIMF______    _/1/I/3_/10M      BCS
587.  _ FDCK 3BN__ 10MR__- 2MD___ IIMF______    _/_/K/3_/10M      AFATDS
588.  _ BCSK 3BN__ 10MR___ 2MD___ IIMF______    _/1/K/3_/10M      BCS
589.  _ FDCL 3BN__ 10MR___ 2MD___ IIMF______    _/_/L/3_/10M      AFATDS
590.  _ BCSL 3BN__ 10MR___ 2MD___ IIMF______    _/1/L/3_/10M      BCS
591.  _ FDCM 3BN__ 10MR___ 2MD___ IIMF______    _/_/M/3_/10M      AFATDS
592.  _ BCSM 3BN__ 10MR___ 2MD___ IIMF______    _/1/M/3_/10M      BCS
593.  _ FDC_ 4BN__ 10MR___ 2MD___ IIMF______    F/D/C/4_/10M      AFATDS
594.  _ TCO_ 4BN__ 10MR___ 2MD___ IIMF______    _/_/_/__/___      MCS
595.  _ IAS_ 4BN__ 10MR___ 2MD___ IIMF______    _/_/_/__/___      ASAS
596.  _ FWD_ 4BN__ 10MR___ 2MD___ IIMF______    F/W/D/4_/10M      AFATDS
597.  F TCO_ 4BN__ 10MR___ 2MD___ IIMF______    _/_/_/__/___      MCS
598.  F IAS_ 4BN__ 10MR___ 2MD___ IIMF______    _/_/_/__/___      ASAS
599.  _ FDCN 4BN__ 10MR___ 2MD___ IIMF______    _/_/N/4_/10M      AFATDS
600.  _ BCSN 4BN__ 10MR___ 2MD___ IIMF______    _/1/N/4_/10M      BCS
601.  _ FDCO 4BN__ 10MR___ 2MD___ IIMF______    _/_/O/4_/10M      AFATDS
602.  _ BCSO 4BN__ 10MR___ 2MD___ IIMF______    _/1/O/4_/10M      BCS
603.  _ FDCP 4BN__ 10MR___ 2MD___ IIMF______    _/_/P/4_/10M      AFATDS
604.  _ BCSP 4BN__ 10MR___ 2MD___ IIMF______    _/1/P/4_/10M      BCS
605.  _ FDCQ 4BN__ 10MR___ 2MD___ IIMF______    _/_/Q/4_/10M      AFATDS
606.  _ BCSQ 4BN__ 10MR___ 2MD___ IIMF______    _/1/Q/4_/10M      BCS
607.  _ FDC_ 5BN__ 10MR___ 2MD___ IIMF______    F/D/C/5_/10M      AFATDS
608.  _ TCO_ 5BN__ 10MR___ 2MD___ IIMF______    _/_/_/__/___      MCS
609.  _ IAS_ 5BN__ 10MR___ 2MD___ IIMF______    _/_/_/__/___      ASAS
610.  _ FWD_ 5BN__ 10MR___ 2MD___ IIMF______    F/W/D/5_/10M      AFATDS
611.  F TCO_ 5BN__ 10MR___ 2MD___ IIMF______    _/_/_/__/___      MCS
612.  F IAS_ 5BN__ 10MR___ 2MD___ IIMF______    _/_/_/__/___      ASAS
613.  _ FDCR 5BN__ 10MR___ 2MD___ IIMF______    _/_/R/5_/10M      AFATDS
614.  _ BCSR 5BN__ 10MR___ 2MD___ IIMF______    _/1/R/5_/10M      BCS
615.  _ FDCS 5BN__ 10MR___ 2MD___ IIMF______    _/_/S/5_/10M      AFATDS
616.  _ BCSS 5BN__ 10MR___ 2MD___ IIMF______    _/1/S/5_/10M      BCS
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617.  _ FDCT 5BN__ 10MR___ 2MD___ IIMF______    _/_/T/5_/10M      AFATDS
618.  _ BCST 5BN__ 10MR___ 2MD___ IIMF______    _/1/T/5_/10M      BCS
619.  _ FDCU 5BN__ 10MR___ 2MD___ IIMF______    _/_/U/5_/10M      AFATDS
620.  _ BCSU 5BN__ 10MR___ 2MD___ IIMF______    _/1/U/5_/10M      BCS
621.  _ FFCC _____ _______ ______ 22MU______    F/F/C/22/MU_      AFATDS
622.  _ TCO_ _____ _______ ______ 22MU______    _/_/_/__/___      MCS
623.  _ IAS_ _____ _______ ______ 22MU______    _/_/_/__/___      ASAS
624.  _ FFCC FWD__ _______ ______ 22MU______    F/W/D/22/MU_      AFATDS
625.  _ TCO  FWD__ _______ ______ 22MU______    _/_/_/__/___      MCS
626.  _ IAS_ FWD__ _______ ______ 22MU______    _/_/_/__/___      ASAS
627.    _ FFCC _____ _______ ______ 24MU______  F/F/C/24/MU_      AFATDS
628.  _ TCO_ _____ _______ ______ 24MU______    _/_/_/__/___      MCS
629.  _ IAS_ _____ _______ ______ 24MU______    _/_/_/__/___      ASAS
630.  _ FFCC FWD__ _______ ______ 24MU______    F/W/D/24/MU_      AFATDS
631.  _ TCO  FWD__ _______ ______ 24MU______    _/_/_/__/___      MCS
632.  _ IAS_ FWD__ _______ ______ 24MU______    _/_/_/__/___      ASAS
633.  _ FFCC _____ _______ ______ 26MU______    F/F/C/26/MU_      AFATDS
634.  _ TCO_ _____ _______ ______ 26MU______    _/_/_/__/___      MCS
635.  _ IAS_ _____ _______ ______ 26MU______    _/_/_/__/___      ASAS
636.  _ FFCC FWD__ _______ ______ 26MU______    F/W/D/26/MU_      AFATDS
637.  _ TCO  FWD__ _______ ______ 26MU______    _/_/_/__/___      MCS
638.  _ IAS_ FWD__ _______ ______ 26MU______    _/_/_/__/___      ASAS
639.  _ FFCC _____ _______ ______ IIIMF_____    F/F/C/3_/MF_      AFATDS
640.  _ TCO_ _____ _______ ______ IIIMF_____    _/_/_/__/___      MCS
641.  _ IAS_ _____ _______ ______ IIIMF_____    _/_/_/__/___      ASAS
642.  _ FFCC FWD__ _______ ______ IIIMF_____    F/W/D/3_/MF_      AFATDS
643.  _ TCO_ FWD__ _______ ______ IIIMF_____    _/_/_/__/___      MCS
644.  _ IAS_ FWD__ _______ ______ IIIMF_____    _/_/_/__/___      ASAS
645.  _ CP__ _____ 3D-____ ANGLIC IIIMF_____    A/N/G/3_/MF_      AFATDS
646.  _ CP__ FWD__ 3D-____ ANGLIC IIIMF_____    F/W/D/3_/ANG      AFATDS
647.  _ 1BDE _____ 3D-____ ANGLIC IIIMF_____    A/N/G/3_/BD1      AFATDS
648.  _ 1BDE FWD__ 3D-____ ANGLIC IIIMF_____    F/W/D/3_/BD1      AFATDS
649.  1 SALT 1BDE_ 3D-____ ANGLIC IIIMF_____    S/A/L/1_/1M3      DCT
650.    2 SALT 1BDE_ 3D-____ ANGLIC IIIMF_____  S/A/L/2_/1M3      DCT
651.  3 SALT 1BDE_ 3D-____ ANGLIC IIIMF_____    S/A/L/3_/1M3      DCT
652.  _ 2BDE _____ 3D-____ ANGLIC IIIMF_____    A/N/G/3_/BD2      AFATDS
653.  _ 2BDE FWD__ 3D-____ ANGLIC IIIMF_____    F/W/D/3_/BD2      AFATDS
654.  1 SALT 2BDE_ 3D-____ ANGLIC IIIMF_____    S/A/L/1_/2M3      DCT
655.  2 SALT 2BDE_ 3D-____ ANGLIC IIIMF_____    S/A/L/2_/2M3      DCT
656.  3 SALT 2BDE_ 3D-____ ANGLIC IIIMF_____    S/A/L/3_/2M3      DCT
657.  _ 3BDE _____ 3D-____ ANGLIC IIIMF_____    A/N/G/3_/BD3      AFATDS
658.  _ 3BDE FWD__ 3D-____ ANGLIC IIIMF_____    F/W/D/3_/BD3      AFATDS
659.  1 SALT 3BDE_ 3D-____ ANGLIC IIIMF_____    S/A/L/1_/3M3      DCT
660.  2 SALT 3BDE_ 3D-____ ANGLIC IIIMF_____    S/A/L/2_/3M3      DCT
661.  3 SALT 3BDE_ 3D-____ ANGLIC IIIMF_____    S/A/L/3_/3M3      DCT
662.  _ CP__ _____ 1ST_VMU 1AW___ IIIMF_____    V/M/U/1_/1AW      AFATDS
663.  _ CP__ FWD__ 1ST_VMU 1AW___ IIIMF_____    F/W/D/1_/VMU      AFATDS
664.  _ FO05 _____ 1ST_VMU 1AW___ IIIMF_____    V/M/U/05/1AW      DCT
665.  _ FO06 _____ 1ST_VMU 1AW___ IIIMF_____    V/M/U/06/1AW      DCT
666.  X XXXX XXXXX XXXXXX XXXXXXX XXXXXXXXXX    XXXXXXXXXXXX      XXXXXX
667.  _ FO07 _____ 1ST_VMU 1AW___ IIIMF_____    V/M/U/07/1AW      DCT
668.  _ FO08 _____ 1ST_VMU 1AW___ IIIMF_____    V/M/U/08/1AW      DCT
669.  _ ____ _____ MAG_31_ 1AW___ IIIMF_____    _/_/_/__/___      AIR
670.  _ ____ _____ MAG_36_ 1AW___ IIIMF_____    _/_/_/__/___      AIR
671.  _ ____ _____ MAG_34_ 1AW___ IIIMF_____    _/_/_/__/___      AIR
672.  _ FSCC _____ _______ 3MD___ IIIMF_____    F/S/C/3_/MD_      AFATDS
673.  _ TCO  _____ _______ 3MD___ IIIMF_____    _/_/_/__/___      MCS
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674.	_	IAS_	_____	_____	3MD___	IIIMF_____	_/_/_/__/___	ASAS
675.	_	FSCC	FWD__	_____	3MD___	IIIMF_____	F/W/D/3_/MD_	AFATDS
676.	_	TCO	FWD__	_____	3MD___	IIIMF_____	_/_/_/__/___	MCS
677.	_	IAS_	FWD__	_____	3MD___	IIIMF_____	_/_/_/__/___	ASAS
678.	_	RAOC	_____	3FSSG__	3MD___	IIIMF_____	R/O/C/3_/FSG	AFATDS
679.	_	DASC	_____	_____	1AW___	IIIMF_____	D/A/S/1_/AW_	AFATDS
680.	_	DASC	_____	CTAPS__	1AW___	IIIMF_____	_/_/_/__/___	MCS
681.	_	DASC	_____	TCO____	1AW___	IIIMF_____	_/_/_/__/___	MCS
682.	_	DASC	_____	IAS____	1AW___	IIIMF_____	_/_/_/__/___	ASAS
683.	_	DASC	FWD__	_____	1AW___	IIIMF_____	F/W/D/1_/DAS	AFATDS
684.	_	DASC	FWD__	CTAPS__	1AW___	IIIMF_____	_/_/_/__/___	MCS
685.	_	DASC	FWD__	TCO____	1AW___	IIIMF_____	_/_/_/__/___	MCS
686.	_	DASC	FWD__	IAS____	1AW___	IIIMF_____	_/_/_/__/___	ASAS
687.	_	TACC	_____	_____	1AW___	IIIMF_____	T/A/C/1_/AW_	AFATDS
688.	_	TACC	_____	CTAPS__	1AW___	IIIMF_____	_/_/_/__/___	MCS
689.	_	TACC	FWD__	_____	1AW___	IIIMF_____	F/W/D/1_/TAC	AFATDS
690.	_	TACC	FWD__	CTAPS__	1AW___	IIIMF_____	_/_/_/__/___	MCS
691.	_	TACC	FWD__	TCO____	1AW___	IIIMF_____	_/_/_/__/___	MCS
692.	_	TACC	FWD__	IAS____	1AW___	IIIMF_____	_/_/_/__/___	ASAS
693.	_	FSCC	_____	3LA____	3MD___	IIIMF_____	F/S/C/3_/LA_	AFATDS
694.	_	TCO_	_____	3LA____	3MD___	IIIMF_____	_/_/_/__/___	MCS
695.	_	IAS_	_____	3LA____	3MD___	IIIMF_____	_/_/_/__/___	ASAS
696.	_	FSCC	FWD__	3LA____	3MD___	IIIMF_____	F/W/D/3_/LA_	AFATDS
697.	_	TCO_	FWD__	3LA____	3MD___	IIIMF_____	_/_/_/__/___	MCS
698.	_	IAS_	FWD__	3LA____	3MD___	IIIMF_____	_/_/_/__/___	ASAS
699.	_	TACP	80___	3LA____	3MD___	IIIMF_____	T/A/C/80/3LA	DCT
700.	1	MTR1	CO_A_	3LA____	3MD___	IIIMF_____	1/1/A/20/3LA	MBC
701.	_	FO01	CO_A_	3LA____	3MD___	IIIMF_____	F/O/A/01/3LA	DCT
702.	2	MTR1	CO_B_	3LA____	3MD___	IIIMF_____	2/1/B/20/3LA	MBC
703.	_	FO02	CO_B_	3LA____	3MD___	IIIMF_____	F/O/B/02/3LA	DCT
704.	3	MTR1	CO_C_	3LA____	3MD___	IIIMF_____	3/1/C/20/3LA	MBC
705.	_	FO03	CO_C_	3LA____	3MD___	IIIMF_____	F/O/C/03/3LA	DCT
706.	4	MTR1	CO_D_	3LA____	3MD___	IIIMF_____	4/1/D/20/3LA	MBC
707.	_	FO04	CO_D_	3LA____	3MD___	IIIMF_____	F/O/D/04/3LA	DCT
708.	_	FSCC	_____	3MR____	3MD___	IIIMF_____	F/S/C/3_/MR_	AFATDS
709.	_	TCO_	_____	3MR____	3MD___	IIIMF_____	_/_/_/__/___	MCS
710.	_	IAS_	_____	3MR____	3MD___	IIIMF_____	_/_/_/__/___	ASAS
711.	_	FSCC	FWD__	3MR____	3MD___	IIIMF_____	F/W/D/3_/MR_	AFATDS
712.	_	TCO	FWD__	3MR____	3MD___	IIIMF_____	_/_/_/__/___	MCS
713.	_	IAS_	FWD__	3MR____	3MD___	IIIMF_____	_/_/_/__/___	ASAS
714.	_	FAC_	30___	3MR____	3MD___	IIIMF_____	F/A/C/30/3MR	DCT
715.	_	FSCC	1BN__	3MR____	3MD___	IIIMF_____	F/S/C/1_/3MR	AFATDS
716.	_	TCO_	1BN__	3MR____	3MD___	IIIMF_____	_/_/_/__/___	MCS
717.	_	IAS_	1BN__	3MR____	3MD___	IIIMF_____	_/_/_/__/___	ASAS
718.	_	FWD_	1BN__	3MR____	3MD___	IIIMF_____	F/W/D/1_/3MR	AFATDS
719.	F	TCO_	1BN__	3MR____	3MD___	IIIMF_____	_/_/_/__/___	MCS
720.	F	IAS_	1BN__	3MR____	3MD___	IIIMF_____	_/_/_/__/___	ASAS
721.	_	TACP	1BN__	3MR____	3MD___	IIIMF_____	T/A/C/51/1A3	DCT
722.	_	WPNS	1BN__	3MR____	3MD___	IIIMF_____	W/P/N/1_/3MR	AFATDS
723.	1	MTR_	1BN__	3MR____	3MD___	IIIMF_____	1/8/M/1_/3MR	MBC
724.	2	MTR_	1BN__	3MR____	3MD___	IIIMF_____	2/8/M/1_/3MR	MBC
725.	A	FO31	1BN__	3MR____	3MD___	IIIMF_____	F/O/A/31/___	DCT
726.	B	FO32	1BN__	3MR____	3MD___	IIIMF_____	F/O/B/32/___	DCT
727.	C	FO33	1BN__	3MR____	3MD___	IIIMF_____	F/O/C/33/___	DCT
728.	_	FSCC	2BN__	3MR____	3MD___	IIIMF_____	F/S/C/2_/3MR	AFATDS
729.	_	TCO	2BN__	3MR____	3MD___	IIIMF_____	_/_/_/__/___	MCS
730.	_	IAS_	2BN__	3MR____	3MD___	IIIMF_____	_/_/_/__/___	ASAS

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731.  _ FWD_ 2BN__ 3MR____ 3MD___ IIIMF_____    F/W/D/2_/3MR      AFATDS
732.  F TCO  2BN__ 3MR____ 3MD___ IIIMF_____    _/_/_/__/___      MCS
733.  F IAS_ 2BN__ 3MR____ 3MD___ IIIMF_____    _/_/_/__/___      ASAS
734.  _ TACP 2BN__ 3MR____ 3MD___ IIIMF_____    T/A/C/52/2A3      DCT
735.  _ WPNS 2BN__ 3MR____ 3MD___ IIIMF_____    W/P/N/2_/3MR      AFATDS
736.  1 MTR_ 2BN__ 3MR____ 3MD___ IIIMF_____    1/8/M/2_/3MR      MBC
737.  2 MTR_ 2BN__ 3MR____ 3MD___ IIIMF_____    2/8/M/2_/3MR      MBC
738.  E FO34 2BN__ 3MR____ 3MD___ IIIMF_____    F/O/E/34/___      DCT
739.  F FO35 2BN__ 3MR____ 3MD___ IIIMF_____    F/O/F/35/___      DCT
740.  G FO36 2BN__ 3MR____ 3MD___ IIIMF_____    F/O/G/36/___      DCT
741.  _ FSCC 3BN__ 3MR____ 3MD___ IIIMF_____    F/S/C/3_/3MR      AFATDS
742.  _ TCO  3BN__ 3MR____ 3MD___ IIIMF_____    _/_/_/__/___      MCS
743.  _ IAS_ 3BN__ 3MR____ 3MD___ IIIMF_____    _/_/_/__/___      ASAS
744.  _ FWD_ 3BN__ 3MR____ 3MD___ IIIMF_____    F/W/D/3_/3MR      AFATDS
745.  F TCO  3BN__ 3MR____ 3MD___ IIIMF_____    _/_/_/__/___      MCS
746.  F IAS_ 3BN__ 3MR____ 3MD___ IIIMF_____    _/_/_/__/___      ASAS
747.  _ TACP 3BN__ 3MR____ 3MD___ IIIMF_____    T/A/C/53/3A3      DCT
748.  _ WPNS 3BN__ 3MR____ 3MD___ IIIMF_____    W/P/N/3_/3MR      AFATDS
749.  1 MTR_ 3BN__ 3MR____ 3MD___ IIIMF_____    1/8/M/3_/3MR      MBC
750.  2 MTR_ 3BN__ 3MR____ 3MD___ IIIMF_____    2/8/M/3_/3MR      MBC
751.  I FO37 3BN__ 3MR____ 3MD___ IIIMF_____    F/O/I/37/___      DCT
752.  K FO38 3BN__ 3MR____ 3MD___ IIIMF_____    F/O/K/38/___      DCT
753.  L FO39 3BN__ 3MR____ 3MD___ IIIMF_____    F/O/L/39/___      DCT
754.  _ FSCC _____ 4MR____ 3MD___ IIIMF_____    F/S/C/4_/MR_      AFATDS
755.  _ TCO_ _____ 4MR____ 3MD___ IIIMF_____    _/_/_/__/___      MCS
756.  _ IAS_ _____ 4MR____ 3MD___ IIIMF_____    _/_/_/__/___      ASAS
757.  _ FSCC FWD__ 4MR____ 3MD___ IIIMF_____    F/W/D/4_/MR_      AFATDS
758.  _ TCO  FWD__ 4MR____ 3MD___ IIIMF_____    _/_/_/__/___      MCS
759.  _ IAS_ FWD__ 4MR____ 3MD___ IIIMF_____    _/_/_/__/___      ASAS
760.  _ FAC_ 40___ 4MR____ 3MD___ IIIMF_____    F/A/C/40/4MR      DCT
761.  _ FSCC 1BN__ 4MR____ 3MD___ IIIMF_____    F/S/C/1_/4MR      AFATDS
762.  _ TCO_ 1BN__ 4MR____ 3MD___ IIIMF_____    _/_/_/__/___      MCS
763.  _ IAS_ 1BN__ 4MR____ 3MD___ IIIMF_____    _/_/_/__/___      ASAS
764.  _ FWD_ 1BN__ 4MR____ 3MD___ IIIMF_____    F/W/D/1_/4MR      AFATDS
765.  F TCO_ 1BN__ 4MR____ 3MD___ IIIMF_____    _/_/_/__/___      MCS
766.  F IAS_ 1BN__ 4MR____ 3MD___ IIIMF_____    _/_/_/__/___      ASAS
767.  _ TACP 1BN__ 4MR____ 3MD___ IIIMF_____    T/A/C/54/1A4      DCT
768.  _ WPNS 1BN__ 4MR____ 3MD___ IIIMF_____    W/P/N/1_/4MR      AFATDS
769.  1 MTR_ 1BN__ 4MR____ 3MD___ IIIMF_____    1/8/M/1_/4MR      MBC
770.  2 MTR_ 1BN__ 4MR____ 3MD___ IIIMF_____    2/8/M/1_/4MR      MBC
771.  A FO41 1BN__ 4MR____ 3MD___ IIIMF_____    F/O/A/41/___      DCT
772.  B FO42 1BN__ 4MR____ 3MD___ IIIMF_____    F/O/B/42/___      DCT
773.  C FO43 1BN__ 4MR____ 3MD___ IIIMF_____    F/O/C/43/___      DCT
774.  _ FSCC 2BN__ 4MR____ 3MD___ IIIMF_____    F/S/C/2_/4MR      AFATDS
775.  _ TCO  2BN__ 4MR____ 3MD___ IIIMF_____    _/_/_/__/___      MCS
776.  _ IAS_ 2BN__ 4MR____ 3MD___ IIIMF_____    _/_/_/__/___      ASAS
777.  _ FWD_ 2BN__ 4MR____ 3MD___ IIIMF_____    F/W/D/2_/4MR      AFATDS
778.  F TCO  2BN__ 4MR____ 3MD___ IIIMF_____    _/_/_/__/___      MCS
779.  F IAS_ 2BN__ 4MR____ 3MD___ IIIMF_____    _/_/_/__/___      ASAS
780.  _ TACP 2BN__ 4MR____ 3MD___ IIIMF_____    T/A/C/55/2A4      DCT
781.  _ WPNS 2BN__ 4MR____ 3MD___ IIIMF_____    W/P/N/2_/4MR      AFATDS
782.  1 MTR_ 2BN__ 4MR____ 3MD___ IIIMF_____    1/8/M/2_/4MR      MBC
783.  2 MTR_ 2BN__ 4MR____ 3MD___ IIIMF_____    2/8/M/2_/4MR      MBC
784.  E FO44 2BN__ 4MR____ 3MD___ IIIMF_____    F/O/E/44/___      DCT
785.  F FO45 2BN__ 4MR____ 3MD___ IIIMF_____    F/O/F/45/___      DCT
786.  G FO46 2BN__ 4MR____ 3MD___ IIIMF_____    F/O/G/46/___      DCT
787.  _ FSCC 3BN__ 4MR____ 3MD___ IIIMF_____    F/S/C/3_/4MR      AFATDS
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788.  _ TCO  3BN__ 4MR____ 3MD___ IIIMF_____    _/_/_/__/___      MCS
789.  _ IAS_ 3BN__ 4MR____ 3MD___ IIIMF_____    _/_/_/__/___      ASAS
790.  _ FWD_ 3BN__ 4MR____ 3MD___ IIIMF_____    F/W/D/3_/4MR      AFATDS
791.  F TCO_ 3BN__ 4MR____ 3MD___ IIIMF_____    _/_/_/__/___      MCS
792.  F IAS_ 3BN__ 4MR____ 3MD___ IIIMF_____    _/_/_/__/___      ASAS
793.  _ TACP 3BN__ 4MR____ 3MD___ IIIMF_____    T/A/C/56/3A4      DCT
794.  _ WPNS 3BN__ 4MR____ 3MD___ IIIMF_____    W/P/N/3_/4MR      AFATDS
795.  1 MTR_ 3BN__ 4MR____ 3MD___ IIIMF_____    1/8/M/3_/4MR      MBC
796.  2 MTR_ 3BN__ 4MR____ 3MD___ IIIMF_____    2/8/M/3_/4MR      MBC
797.  I FO47 3BN__ 4MR____ 3MD___ IIIMF_____    F/O/I/47/___      DCT
798.  K FO48 3BN__ 4MR____ 3MD___ IIIMF_____    F/O/K/48/___      DCT
799.  L FO49 3BN__ 4MR____ 3MD___ IIIMF_____    F/O/L/49/___      DCT
800.  _ FSCC _____ 9MR____ 3MD___ IIIMF_____    F/S/C/9_/MR_      AFATDS
801.  _ TCO_ _____ 9MR____ 3MD___ IIIMF_____    _/_/_/__/___      MCS
802.  _ IAS_ _____ 9MR____ 3MD___ IIIMF_____    _/_/_/__/___      ASAS
803.  _ FSCC FWD__ 9MR____ 3MD___ IIIMF_____    F/W/D/9_/MR_      AFATDS
804.  _ TCO  FWD__ 9MR____ 3MD___ IIIMF_____    _/_/_/__/___      MCS
805.  _ IAS_ FWD__ 9MR____ 3MD___ IIIMF_____    _/_/_/__/___      ASAS
806.    _ FAC_ 90___ 9MR____ 3MD___ IIIMF_____  F/A/C/90/9MR      DCT
807.  _ FSCC 1BN__ 9MR____ 3MD___ IIIMF_____    F/S/C/1_/9MR      AFATDS
808.  _ TCO_ 1BN__ 9MR____ 3MD___ IIIMF_____    _/_/_/__/___      MCS
809.  _ IAS_ 1BN__ 9MR____ 3MD___ IIIMF_____    _/_/_/__/___      ASAS
810.  _ FWD_ 1BN__ 9MR____ 3MD___ IIIMF_____    F/W/D/1_/9MR      AFATDS
811.  F TCO_ 1BN__ 9MR____ 3MD___ IIIMF_____    _/_/_/__/___      MCS
812.  F IAS_ 1BN__ 9MR____ 3MD___ IIIMF_____    _/_/_/__/___      ASAS
813.  _ TACP 1BN__ 9MR____ 3MD___ IIIMF_____    T/A/C/57/9MR      DCT
814.  _ WPNS 1BN__ 9MR____ 3MD___ IIIMF_____    W/P/N/1_/9MR      AFATDS
815.  1 MTR_ 1BN__ 9MR____ 3MD___ IIIMF_____    1/8/M/1_/9MR      MBC
816.  2 MTR_ 1BN__ 9MR____ 3MD___ IIIMF_____    2/8/M/1_/9MR      MBC
817.  A FO91 1BN__ 9MR____ 3MD___ IIIMF_____    F/O/A/91/___      DCT
818.  B FO92 1BN__ 9MR____ 3MD___ IIIMF_____    F/O/B/92/___      DCT
819.  C FO93 1BN__ 9MR____ 3MD___ IIIMF_____    F/O/C/93/___      DCT
820.  _ FSCC 2BN__ 9MR____ 3MD___ IIIMF_____    F/S/C/2_/9MR      AFATDS
821.  _ TCO_ 2BN__ 9MR____ 3MD___ IIIMF_____    _/_/_/__/___      MCS
822.  _ IAS_ 2BN__ 9MR____ 3MD___ IIIMF_____    _/_/_/__/___      ASAS
823.  _ FWD_ 2BN__ 9MR____ 3MD___ IIIMF_____    F/W/D/2_/9MR      AFATDS
824.  F TCO  2BN__ 9MR____ 3MD___ IIIMF_____    _/_/_/__/___      MCS
825.  F IAS_ 2BN__ 9MR____ 3MD___ IIIMF_____    _/_/_/__/___      ASAS
826.  _ TACP 2BN__ 9MR____ 3MD___ IIIMF_____    T/A/C/58/9MR      DCT
827.  _ WPNS 2BN__ 9MR____ 3MD___ IIIMF_____    W/P/N/2_/9MR      AFATDS
828.  1 MTR_ 2BN__ 9MR____ 3MD___ IIIMF_____    1/8/M/2_/9MR      MBC
829.  2 MTR_ 2BN__ 9MR____ 3MD___ IIIMF_____    2/8/M/2_/9MR      MBC
830.  E FO94 2BN__ 9MR____ 3MD___ IIIMF_____    F/O/E/94/___      DCT
831.  F FO95 2BN__ 9MR____ 3MD___ IIIMF_____    F/O/F/95/___      DCT
832.  G FO96 2BN__ 9MR____ 3MD___ IIIMF_____    F/O/G/96/___      DCT
833.  _ FSCC 3BN__ 9MR____ 3MD___ IIIMF_____    F/S/C/3_/9MR      AFATDS
834.  _ TCO  3BN__ 9MR____ 3MD___ IIIMF_____    _/_/_/__/___      MCS
835.  _ IAS_ 3BN__ 9MR____ 3MD___ IIIMF_____    _/_/_/__/___      ASAS
836.  _ FWD_ 3BN__ 9MR____ 3MD___ IIIMF_____    F/W/D/3_/9MR      AFATDS
837.  F TCO  3BN__ 9MR____ 3MD___ IIIMF_____    _/_/_/__/___      MCS
838.  F IAS_ 3BN__ 9MR____ 3MD___ IIIMF_____    _/_/_/__/___      ASAS
839.  _ TACP 3BN__ 9MR____ 3MD___ IIIMF_____    T/A/C/59/9MR      DCT
840.  _ WPNS 3BN__ 9MR____ 3MD___ IIIMF_____    W/P/N/3_/9MR      AFATDS
841.    1 MTR_ 3BN__ 9MR____ 3MD___ IIIMF_____  1/8/M/3_/9MR      MBC
842.  2 MTR_ 3BN__ 9MR____ 3MD___ IIIMF_____    2/8/M/3_/9MR      MBC
843.  I FO97 3BN__ 9MR____ 3MD___ IIIMF_____    F/O/I/97/___      DCT
844.  K FO98 3BN__ 9MR____ 3MD___ IIIMF_____    F/O/K/98/___      DCT
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845. L FO99 3BN__ 9MR____ 3MD___ IIIMF_____ F/O/L/99/___ DCT
846. _ FDC_ _____ 12MR___ 3MD___ IIIMF_____ F/D/C/12/MR_ AFATDS
847. _ TCO_ _____ 12MR___ 3MD___ IIIMF_____ _/_/_/__/___ MCS
848. _ IAS_ _____ 12MR___ 3MD___ IIIMF_____ _/_/_/__/___ ASAS
849. _ TPC_ _____ 12MR___ 3MD___ IIIMF_____ T/P/C/12/MR_ AFATDS
850. _ TPC_ FWD__ 12MR___ 3MD___ IIIMF_____ F/W/D/12/TPC AFATDS
851. _ CBR_ 01___ 12MR___ 3MD___ IIIMF_____ C/B/R/01/12M Q-36
852. _ CBR_ 02___ 12MR___ 3MD___ IIIMF_____ C/B/R/02/12M Q-36
853. _ CBR_ 03___ 12MR___ 3MD___ IIIMF_____ C/B/R/03/12M Q-36
854. _ CBR_ 04___ 12MR___ 3MD___ IIIMF_____ C/B/R/04/12M Q-36
855. _ MET_ 01___ 12MR___ 3MD___ IIIMF_____ M/E/T/01/12M MDS
856. _ MET_ 02___ 12MR___ 3MD___ IIIMF_____ M/E/T/02/12M MDS
857. _ MET_ 03___ 12MR___ 3MD___ IIIMF_____ M/E/T/03/12M MDS
858. _ MET_ 04___ 12MR___ 3MD___ IIIMF_____ M/E/T/04/12M MDS
859. _ FDC_ FWD__ 12MR___ 3MD___ IIIMF_____ F/W/D/12/MR_ AFATDS
860. _ TCO_ FWD__ 12MR___ 3MD___ IIIMF_____ _/_/_/__/___ MCS
861. _ IAS_ FWD__ 12MR___ 3MD___ IIIMF_____ _/_/_/__/___ ASAS
862. _ FDC_ 1BN__ 12MR___ 3MD___ IIIMF_____ F/D/C/1_/12M AFATDS
863. _ TCO_ 1BN__ 12MR___ 3MD___ IIIMF_____ _/_/_/__/___ MCS
864. _ IAS_ 1BN__ 12MR___ 3MD___ IIIMF_____ _/_/_/__/___ ASAS
865. _ FWD_ 1BN__ 12MR___ 3MD___ IIIMF_____ F/W/D/1_/12M AFATDS
866. F TCO_ 1BN__ 12MR___ 3MD___ IIIMF_____ _/_/_/__/___ MCS
867. F IAS_ 1BN__ 12MR___ 3MD___ IIIMF_____ _/_/_/__/___ ASAS
868. _ FDCA 1BN__ 12MR___ 3MD___ IIIMF_____ _/_/A/1_/12M AFATDS
869. _ BCSA 1BN__ 12MR___ 3MD___ IIIMF_____ _/1/A/1_/12M BCS
870. _ FDCB 1BN__ 12MR___ 3MD___ IIIMF_____ _/_/B/1_/12M AFATDS
871. _ BCSB 1BN__ 12MR___ 3MD___ IIIMF_____ _/1/B/1_/12M BCS
872. _ FDCC 1BN__ 12MR___ 3MD___ IIIMF_____ _/_/C/1_/12M AFATDS
873. _ BCSC 1BN__ 12MR___ 3MD___ IIIMF_____ _/1/C/1_/12M BCS
874. _ FDCD 1BN__ 12MR___ 3MD___ IIIMF_____ _/_/D/1_/12M AFATDS
875. _ BCSD 1BN__ 12MR___ 3MD___ IIIMF_____ _/1/D/1_/12M BCS
876. _ FDC_ 2BN__ 12MR___ 3MD___ IIIMF_____ F/D/C/2_/12M AFATDS
877. _ TCO_ 2BN__ 12MR___ 3MD___ IIIMF_____ _/_/_/__/___ MCS
878. _ IAS_ 2BN__ 12MR___ 3MD___ IIIMF_____ _/_/_/__/___ ASAS
879. _ FWD_ 2BN__ 12MR___ 3MD___ IIIMF_____ F/W/D/2_/12M AFATDS
880. F TCO_ 2BN__ 12MR___ 3MD___ IIIMF_____ _/_/_/__/___ MCS
881. F IAS_ 2BN__ 12MR___ 3MD___ IIIMF_____ _/_/_/__/___ ASAS
882. _ FDCE 2BN__ 12MR___ 3MD___ IIIMF_____ _/_/E/2_/12M AFATDS
883. _ BCSE 2BN__ 12MR___ 3MD___ IIIMF_____ _/1/E/2_/12M BCS
884. _ FDCF 2BN__ 12MR___ 3MD___ IIIMF_____ _/_/F/2_/12M AFATDS
885. _ BCSF 2BN__ 12MR___ 3MD___ IIIMF_____ _/1/F/2_/12M BCS
886. _ FDCG 2BN__ 12MR___ 3MD___ IIIMF_____ _/_/G/2_/12M AFATDS
887. _ BCSG 2BN__ 12MR___ 3MD___ IIIMF_____ _/1/G/2_/12M BCS
888. _ FDCH 2BN__ 12MR___ 3MD___ IIIMF_____ _/_/H/2_/12M AFATDS
889. _ BCSH 2BN__ 12MR___ 3MD___ IIIMF_____ _/1/H/2_/12M BCS
890. _ FDC_ 3BN__ 12MR___ 3MD___ IIIMF_____ F/D/C/3_/12M AFATDS
891. _ TCO_ 3BN__ 12MR___ 3MD___ IIIMF_____ _/_/_/__/___ MCS
892. _ IAS_ 3BN__ 12MR___ 3MD___ IIIMF_____ _/_/_/__/___ ASAS
893. _ FWD_ 3BN__ 12MR___ 3MD___ IIIMF_____ F/W/D/3_/12M AFATDS
894. F TCO_ 3BN__ 12MR___ 3MD___ IIIMF_____ _/_/_/__/___ MCS
895. F IAS_ 3BN__ 12MR___ 3MD___ IIIMF_____ _/_/_/__/___ ASAS
896. _ FDCI 3BN__ 12MR___ 3MD___ IIIMF_____ _/_/I/3_/12M AFATDS
897. _ BCSI 3BN__ 12MR___ 3MD___ IIIMF_____ _/1/I/3_/12M BCS
898. _ FDCK 3BN__ 12MR___ 3MD___ IIIMF_____ _/_/K/3_/12M AFATDS
899. _ BCSK 3BN__ 12MR___ 3MD___ IIIMF_____ _/1/K/3_/12M BCS
900. _ FDCL 3BN__ 12MR___ 3MD___ IIIMF_____ _/_/L/3_/12M AFATDS
901. _ BCSL 3BN__ 12MR___ 3MD___ IIIMF_____ _/1/L/3_/12M BCS

902.	_	FDCM	3BN__	12MR___	3MD___	IIIMF_____	_/_/M/3_/12M	AFATDS
903.	_	BCSM	3BN__	12MR___	3MD___	IIIMF_____	_/1/M/3_/12M	BCS
904.	_	FDC_	4BN__	12MR___	3MD___	IIIMF_____	F/D/C/4_/12M	AFATDS
905.	_	TCO_	4BN__	12MR___	3MD___	IIIMF_____	_/_/_/__/___	MCSCO
906.	_	IAS_	4BN__	12MR___	3MD___	IIIMF_____	_/_/_/__/___	ASAS
907.	_	FWD_	4BN__	12MR___	3MD___	IIIMF_____	F/W/D/4_/12M	AFATDS
908.	F	TCO_	4BN__	12MR___	3MD___	IIIMF_____	_/_/_/__/___	MCS
909.	F	IAS_	4BN__	12MR___	3MD___	IIIMF_____	_/_/_/__/___	ASAS
910.	_	FDCN	4BN__	12MR___	3MD___	IIIMF_____	_/_/N/4_/12M	AFATDS
911.	_	BCSN	4BN__	12MR___	3MD___	IIIMF_____	_/1/N/4_/12M	BCS
912.	_	FDCO	4BN__	12MR___	3MD___	IIIMF_____	_/_/O/4_/12M	AFATDS
913.	_	BCSO	4BN__	12MR___	3MD___	IIIMF_____	_/1/O/4_/12M	BCS
914.	_	FDCP	4BN__	12MR___	3MD___	IIIMF_____	_/_/P/4_/12M	AFATDS
915.	_	BCSP	4BN__	12MR___	3MD___	IIIMF_____	_/1/P/4_/12M	BCS
916.	_	FDCQ	4BN__	12MR___	3MD___	IIIMF_____	_/_/Q/4_/12M	AFATDS
917.	_	BCSQ	4BN__	12MR___	3MD___	IIIMF_____	_/1/Q/4_/12M	BCS
918.	_	FDC_	5BN__	12MR___	3MD___	IIIMF_____	F/D/C/5_/12M	AFATDS
919.	_	TCO_	5BN__	12MR___	3MD___	IIIMF_____	_/_/_/__/___	MCS
920.	_	IAS_	5BN__	12MR___	3MD___	IIIMF_____	_/_/_/__/___	ASAS
921.	_	FWD_	5BN__	12MR___	3MD___	IIIMF_____	F/W/D/5_/12M	AFATDS
922.	F	TCO_	5BN__	12MR___	3MD___	IIIMF_____	_/_/_/__/___	MCS
923.	F	IAS_	5BN__	12MR___	3MD___	IIIMF_____	_/_/_/__/___	ASAS
924.	_	FDCR	5BN__	12MR___	3MD___	IIIMF_____	_/_/R/5_/12M	AFATDS
925.	_	BCSR	5BN__	12MR___	3MD___	IIIMF_____	_/1/R/5_/12M	BCS
926.	_	FDCS	5BN__	12MR___	3MD___	IIIMF_____	_/_/S/5_/12M	AFATDS
927.	_	BCSS	5BN__	12MR___	3MD___	IIIMF_____	_/1/S/5_/12M	BCS
928.	_	FDCT	5BN__	12MR___	3MD___	IIIMF_____	_/_/T/5_/12M	AFATDS
929.	_	BCST	5BN__	12MR___	3MD___	IIIMF_____	_/1/T/5_/12M	BCS
930.	_	FDCU	5BN__	12MR___	3MD___	IIIMF_____	_/_/U/5_/12M	AFATDS
931.	_	BCSU	5BN__	12MR___	3MD___	IIIMF_____	_/1/U/5_/12M	BCS
932.	_	FFCC	_____	_____	_____	31MU_____	F/F/C/31/MU_	AFATDS
933.	_	TCO_	_____	_____	_____	31MU_____	_/_/_/__/___	MCS
934.	_	IAS_	_____	_____	_____	31MU_____	_/_/_/__/___	ASAS
935.	_	FFCC	FWD__	_____	_____	31MU_____	F/W/D/31/MU_	AFATDS
936.	_	TCO_	FWD__	_____	_____	31MU_____	_/_/_/__/___	MCS
937.	_	IAS_	FWD__	_____	_____	31MU_____	_/_/_/__/___	ASAS
938.	_	FFCC	_____	_____	_____	33MU_____	F/F/C/33/MU_	AFATDS
939.	_	TCO_	_____	_____	_____	33MU_____	_/_/_/__/___	MCS
940.	_	IAS_	_____	_____	_____	33MU_____	_/_/_/__/___	ASAS
941.	_	FFCC	FWD__	_____	_____	33MU_____	F/W/D/33/MU_	AFATDS
942.	_	TCO	FWD__	_____	_____	33MU_____	_/_/_/__/___	MCS
943.	_	IAS_	FWD__	_____	_____	33MU_____	_/_/_/__/___	ASAS
944.	_	FFCC	_____	_____	_____	35MU_____	F/F/C/35/MU_	AFATDS
945.	_	TCO_	_____	_____	_____	35MU_____	_/_/_/__/___	MCS
946.	_	IAS_	_____	_____	_____	35MU_____	_/_/_/__/___	ASAS
947.	_	FFCC	FWD__	_____	_____	35MU_____	F/W/D/35/MU_	AFATDS
948.	_	TCO	FWD__	_____	_____	35MU_____	_/_/_/__/___	MCS
949.	_	IAS_	FWD__	_____	_____	35MU_____	_/_/_/__/___	ASAS
950.	_	FFCC	_____	_____	_____	MARFORRES_	F/F/C/W_/MF_	AFATDS
951.	_	TCO_	_____	_____	_____	MARFORRES_	_/_/_/__/___	MCS
952.	_	IAS_	_____	_____	_____	MARFORRES_	_/_/_/__/___	ASAS
953.	_	FFCC	_____	_____	_____	MARFORRES_	F/W/D/4_/MF_	AFATDS
954.	_	TCO_	FWD__	_____	_____	MARFORRES_	_/_/_/__/___	MCS
955.	_	IAS_	FWD__	_____	_____	MARFORRES_	_/_/_/__/___	ASAS
956.	_	CP__	_____	4TH-___	ANGLIC	MARFORRES_	A/N/G/4_/MF_	AFATDS
957.	_	CP__	FWD__	4TH-___	ANGLIC	MARFORRES_	F/W/D/4_/ANG	AFATDS
958.	_	1BDE	_____	4TH-___	ANGLIC	MARFORRES_	A/N/G/2_/BD4	AFATDS

959.	_	1BDE	FWD__	4TH-___	ANGLIC	MARFORRES_	F/W/D/1_/BD4	AFATDS
960.	1	SALT	1BDE_	4TH-___	ANGLIC	MARFORRES_	S/A/L/1_/1M4	DCT
961.	2	SALT	1BDE_	4TH-___	ANGLIC	MARFORRES_	S/A/L/2_/1M4	DCT
962.	3	SALT	1BDE_	4TH-___	ANGLIC	MARFORRES_	S/A/L/3_/1M4	DCT
963.	_	2BDE	_____	4TH-___	ANGLIC	MARFORRES_	A/N/G/1_/BD4	AFATDS
964.	_	2BDE	FWD__	4TH-___	ANGLIC	MARFORRES_	F/W/D/1_/BD4	AFATDS
965.	1	SALT	2BDE_	4TH-___	ANGLIC	MARFORRES_	S/A/L/1_/2M4	DCT
966.	2	SALT	2BDE_	4TH-___	ANGLIC	MARFORRES_	S/A/L/2_/2M4	DCT
967.	3	SALT	2BDE_	4TH-___	ANGLIC	MARFORRES_	S/A/L/3_/2M4	DCT
968.	_	3BDE	_____	4TH-___	ANGLIC	MARFORRES_	A/N/G/3_/BD4	AFATDS
969.	_	3BDE	FWD__	4TH-___	ANGLIC	MARFORRES_	F/W/D/3_/BD4	AFATDS
970.	1	SALT	3BDE_	4TH-___	ANGLIC	MARFORRES_	S/A/L/1_/3M4	DCT
971.	2	SALT	3BDE_	4TH-___	ANGLIC	MARFORRES_	S/A/L/2_/3M4	DCT
972.	3	SALT	3BDE_	4TH-___	ANGLIC	MARFORRES_	S/A/L/3_/3M4	DCT
973.	_	CP__	_____	4TH_VMU	4AW___	MARFORRES_	V/M/U/4_/4AW	AFATDS
974.	_	CP__	FWD__	4TH_VMU	4AW___	MARFORRES_	F/W/D/4_/VMU	AFATDS
975.	_	FO05	_____	4TH_VMU	4AW___	MARFORRES_	V/M/U/05/4AW	DCT
976.	_	FO06	_____	4TH_VMU	4AW___	MARFORRES_	V/M/U/06/4AW	DCT
977.	_	FO07	_____	4TH_VMU	4AW___	MARFORRES_	V/M/U/07/4AW	DCT
978.	_	FO08	_____	4TH_VMU	4AW___	MARFORRES_	V/M/U/08/4AW	DCT
979.	_	____	_____	MAG_41_	4AW___	MARFORRES_	_/_/_/__/___	AIR
980.	_	____	_____	MAG_46_	4AW___	MARFORRES_	_/_/_/__/___	AIR
981.	_	____	_____	MAG_49_	4AW___	MARFORRES_	_/_/_/__/___	AIR
982.	_	____	_____	MAG_13_	4AW___	MARFORRES_	_/_/_/__/___	AIR
983.	_	FSCC	_____	_____	4MD___	MARFORRES_	F/S/C/4_/MD_	AFATDS
984.	_	TCO	_____	_____	4MD___	MARFORRES_	_/_/_/__/___	MCS
985.	_	IAS_	_____	_____	4MD___	MARFORRES_	_/_/_/__/___	ASAS
986.	_	FSCC	FWD__	_____	4MD___	MARFORRES_	F/W/D/4_/MD_	AFATDS
987.	_	TCO	FWD__	_____	4MD___	MARFORRES_	_/_/_/__/___	MCS
988.	_	IAS_	FWD__	_____	4MD___	MARFORRES_	_/_/_/__/___	ASAS
989.	_	RAOC	_____	4FSSG__	4MD___	MARFORRES_	R/O/C/4_/FSG	AFATDS
990.	_	DASC	_____	_____	4AW___	MARFORRES_	D/A/S/4_/MW_	AFATDS
991.	_	DASC	_____	CTAPS__	4AW___	MARFORRES_	_/_/_/__/___	MCS
992.	_	DASC	_____	TCO____	4AW___	MARFORRES_	_/_/_/__/___	MCS
993.	_	DASC	_____	IAS____	4AW___	MARFORRES_	_/_/_/__/___	ASAS
994.	_	DASC	FWD__	_____	4AW___	MARFORRES_	F/W/D/4_/DAS	AFATDS
995.	_	DASC	FWD__	CTAPS__	4AW___	MARFORRES_	_/_/_/__/___	MCS
996.	_	DASC	FWD__	TCO____	4AW___	MARFORRES_	_/_/_/__/___	MCS
997.	_	DASC	FWD__	IAS____	4AW___	MARFORRES_	_/_/_/__/___	ASAS
998.	_	TACC	_____	_____	4AW___	MARFORRES_	T/A/C/4_/MW	AFATDS
999.	_	TACC	_____	CTAPS__	4AW___	MARFORRES_	_/_/_/__/___	MCS
1000.	_	TACC	_____	TCO____	4AW___	MARFORRES_	_/_/_/__/___	MCS
1001.	_	TACC	_____	IAS____	4AW___	MARFORRES_	_/_/_/__/___	ASAS
1002.	_	TACC	FWD__	_____	4AW___	MARFORRES_	F/W/D/4_/TAC	AFATDS
1003.	_	TACC	FWD__	CTAPS__	4AW___	MARFORRES_	_/_/_/__/___	MCS
1004.	_	TACC	FWD__	TCO____	4AW___	MARFORRES_	_/_/_/__/___	MCS
1005.	_	TACC	FWD__	IAS____	4AW___	MARFORRES_	_/_/_/__/___	ASAS
1006.	_	FSCC	_____	4LA____	4MD___	MARFORRES_	F/S/C/4_/LA_	AFATDS
1007.	_	TCO_	_____	4LA____	4MD___	MARFORRES_	_/_/_/__/___	MCS
1008.	_	IAS_	_____	4LA____	4MD___	MARFORRES_	_/_/_/__/___	ASAS
1009.	_	FSCC	FWD__	4LA____	4MD___	MARFORRES_	F/W/D/1_/4LA	AFATDS
1010.	_	TCO_	FWD__	4LA____	4MD___	MARFORRES_	_/_/_/__/___	MCS
1011.	_	IAS_	FWD__	4LA____	4MD___	MARFORRES_	_/_/_/__/___	ASAS
1012.	_	TACP	90___	4LA____	4MD___	MARFORRES_	T/A/C/90/4LA	DCT
1013.	1	MTR1	CO_A_	4LA____	4MD___	MARFORRES_	1/1/A/20/4LA	MBC
1014.	_	FO01	CO_A_	4LA____	4MD___	MARFORRES_	F/O/A/01/4LA	DCT
1015.	2	MTR1	CO_B_	4LA____	4MD___	MARFORRES_	2/1/B/20/4LA	MBC

1016.	_	FO02	CO_B_	4LA____	4MD___	MARFORRES_	F/O/B/02/4LA	DCT
1017.	3	MTR1	CO_C_	4LA____	4MD___	MARFORRES_	3/1/C/20/4LA	MBC
1018.	_	FO03	CO_C_	4LA____	4MD___	MARFORRES_	F/O/C/03/4LA	DCT
1019.	4	MTR1	CO_D_	4LA____	4MD___	MARFORRES_	4/1/D/20/4LA	MBC
1020.	_	FO04	CO_D_	4LA____	4MD___	MARFORRES_	F/O/D/04/4LA	DCT
1021.	_	FSCC	_____	23MR___	4MD___	MARFORRES_	F/S/C/23/MR_	AFATDS
1022.	_	TCO_	_____	23MR___	4MD___	MARFORRES_	_/_/_/__/___	MCS
1023.	_	IAS_	_____	23MR___	4MD___	MARFORRES_	_/_/_/__/___	ASAS
1024.	_	FSCC	FWD__	23MR___	4MD___	MARFORRES_	F/W/D/23/MR_	AFATDS
1025.	_	TCO	FWD__	23MR___	4MD___	MARFORRES_	_/_/_/__/___	MCS
1026.	_	IAS_	FWD__	23MR___	4MD___	MARFORRES_	_/_/_/__/___	ASAS
1027.	_	FAC_	23___	23MR___	4MD___	MARFORRES_	F/A/C/23/23M	DCT
1028.	_	FSCC	1BN__	23MR___	4MD___	MARFORRES_	F/S/C/1_/23M	AFATDS
1029.	_	TCO_	1BN__	23MR___	4MD___	MARFORRES_	_/_/_/__/___	MCS
1030.	_	IAS_	1BN__	23MR___	4MD___	MARFORRES_	_/_/_/__/___	ASAS
1031.	_	FWD_	1BN__	23MR___	4MD___	MARFORRES_	F/W/D/1_/23M	AFATDS
1032.	F	TCO_	1BN__	23MR___	4MD___	MARFORRES_	_/_/_/__/___	MCS
1033.	F	IAS_	1BN__	23MR___	4MD___	MARFORRES_	_/_/_/__/___	ASAS
1034.	_	TACP	1BN__	23MR___	4MD___	MARFORRES_	T/A/C/71/123	DCT
1035.	_	WPNS	1BN__	23MR___	4MD___	MARFORRES_	W/P/N/1_/23M	AFATDS
1036.	1	MTR_	1BN__	23MR___	4MD___	MARFORRES_	1/8/M/1_/23M	MBC
1037.	2	MTR_	1BN__	23MR___	4MD___	MARFORRES_	2/8/M/1_/23M	MBC
1038.	A	FO21	1BN__	23MR___	4MD___	MARFORRES_	F/O/A/21/23M	DCT
1039.	B	FO22	1BN__	23MR___	4MD___	MARFORRES_	F/O/B/22/23M	DCT
1040.	C	FO23	1BN__	23MR___	4MD___	MARFORRES_	F/O/C/23/23M	DCT
1041.	_	FSCC	2BN__	23MR___	4MD___	MARFORRES_	F/S/C/2_/23M	AFATDS
1042.	_	TCO_	2BN__	23MR___	4MD___	MARFORRES_	_/_/_/__/___	MCS
1043.	_	IAS_	2BN__	23MR___	4MD___	MARFORRES_	_/_/_/__/___	ASAS
1044.	_	FWD_	2BN__	23MR___	4MD___	MARFORRES_	F/W/D/2_/23M	AFATDS
1045.	F	TCO	2BN__	23MR___	4MD___	MARFORRES_	_/_/_/__/___	MCS
1046.	F	IAS_	2BN__	23MR___	4MD___	MARFORRES_	_/_/_/__/___	ASAS
1047.	_	TACP	2BN__	23MR___	4MD___	MARFORRES_	T/A/C/72/223	DCT
1048.	_	WPNS	2BN__	23MR___	4MD___	MARFORRES_	W/P/N/2_/23M	AFATDS
1049.	1	MTR_	2BN__	23MR___	4MD___	MARFORRES_	1/8/M/2_/23M	MBC
1050.	2	MTR_	2BN__	23MR___	4MD___	MARFORRES_	2/8/M/2_/23M	MBC
1051.	E	FO24	2BN__	23MR___	4MD___	MARFORRES_	F/O/E/24/23M	DCT
1052.	F	FO25	2BN__	23MR___	4MD___	MARFORRES_	F/O/F/25/23M	DCT
1053.	G	FO26	2BN__	23MR___	4MD___	MARFORRES_	F/O/G/26/23M	DCT
1054.	_	FSCC	3BN__	23MR___	4MD___	MARFORRES_	F/S/C/3_/23M	AFATDS
1055.	_	TCO	3BN__	23MR___	4MD___	MARFORRES_	_/_/_/__/___	MCS
1056.	_	IAS_	3BN__	23MR___	4MD___	MARFORRES_	_/_/_/__/___	ASAS
1057.	_	FWD_	3BN__	23MR___	4MD___	MARFORRES_	F/W/D/3_/23M	AFATDS
1058.	F	TCO	3BN__	23MR___	4MD___	MARFORRES_	_/_/_/__/___	MCS
1059.	F	IAS_	3BN__	23MR___	4MD___	MARFORRES_	_/_/_/__/___	ASAS
1060.	_	TACP	3BN__	23MR___	4MD___	MARFORRES_	T/A/C/73/23M	DCT
1061.	_	WPNS	3BN__	23MR___	4MD___	MARFORRES_	W/P/N/3_/23M	AFATDS
1062.	1	MTR_	3BN__	23MR___	4MD___	MARFORRES_	1/8/M/3_/23M	MBC
1063.	2	MTR_	3BN__	23MR___	4MD___	MARFORRES_	2/8/M/3_/23M	MBC
1064.	I	FO27	3BN__	23MR___	4MD___	MARFORRES_	F/O/I/27/23M	DCT
1065.	L	FO28	3BN__	23MR___	4MD___	MARFORRES_	F/O/L/28/23M	DCT
1066.	K	FO29	3BN__	23MR___	4MD___	MARFORRES_	F/O/K/29/23M	DCT
1067.	_	FSCC	_____	24MR___	4MD___	MARFORRES_	F/S/C/24/MR_	AFATDS
1068.	_	TCO_	_____	24MR___	4MD___	MARFORRES_	_/_/_/__/___	MCS
1069.	_	IAS_	_____	24MR___	4MD___	MARFORRES_	_/_/_/__/___	ASAS
1070.	_	FSCC	FWD__	24MR___	4MD___	MARFORRES_	F/W/D/24/MR_	AFATDS
1071.	_	TCO	FWD__	24MR___	4MD___	MARFORRES_	_/_/_/__/___	MCS
1072.	_	IAS_	FWD__	24MR___	4MD___	MARFORRES_	_/_/_/__/___	ASAS

1073.	_	FAC_	24___	24MR___	4MD___	MARFORRES_	F/A/C/24/24M	DCT
1074.	_	FSCC	1BN__	24MR___	4MD___	MARFORRES_	F/S/C/1_/24M	AFATDS
1075.	_	TCO_	1BN__	24MR___	4MD___	MARFORRES_	_/_/_/__/___	MCS
1076.	_	IAS_	1BN__	24MR___	4MD___	MARFORRES_	_/_/_/__/___	ASAS
1077.	_	FWD_	1BN__	24MR___	4MD___	MARFORRES_	F/W/D/1_/24M	AFATDS
1078.	F	TCO_	1BN__	24MR___	4MD___	MARFORRES_	_/_/_/__/___	MCS
1079.	F	IAS_	1BN__	24MR___	4MD___	MARFORRES_	_/_/_/__/___	ASAS
1080.	_	TACP	1BN__	24MR___	4MD___	MARFORRES_	T/A/C/74/24M	DCT
1081.	_	WPNS	1BN__	24MR___	4MD___	MARFORRES_	W/P/N/1_/24M	AFATDS
1082.	1	MTR_	1BN__	24MR___	4MD___	MARFORRES_	1/8/M/1_/24M	MBC
1083.	2	MTR_	1BN__	24MR___	4MD___	MARFORRES_	2/8/M/1_/24M	MBC
1084.	A	FO61	1BN__	24MR___	4MD___	MARFORRES_	F/O/A/61/24M	DCT
1085.	B	FO62	1BN__	24MR___	4MD___	MARFORRES_	F/O/B/62/24M	DCT
1086.	C	FO63	1BN__	24MR___	4MD___	MARFORRES_	F/O/C/63/24M	DCT
1087.	_	FSCC	2BN__	24MR___	4MD___	MARFORRES_	F/S/C/2_/24M	AFATDS
1088.	_	TCO	2BN__	24MR___	4MD___	MARFORRES_	_/_/_/__/___	MCS
1089.	_	IAS_	2BN__	24MR___	4MD___	MARFORRES_	_/_/_/__/___	ASAS
1090.	_	FWD_	2BN__	24MR___	4MD___	MARFORRES_	F/W/D/2_/24M	AFATDS
1091.	F	TCO	2BN__	24MR___	4MD___	MARFORRES_	_/_/_/__/___	MCS
1092.	F	IAS_	2BN__	24MR___	4MD___	MARFORRES_	_/_/_/__/___	ASAS
1093.	_	TACP	2BN__	24MR___	4MD___	MARFORRES_	T/A/C/75/24M	DCT
1094.	_	WPNS	2BN__	24MR___	4MD___	MARFORRES_	W/P/N/2_/24M	AFATDS
1095.	1	MTR_	2BN__	24MR___	4MD___	MARFORRES_	1/8/M/2_/24M	MBC
1096.	2	MTR_	2BN__	24MR___	4MD___	MARFORRES_	2/8/M/2_/24M	MBC
1097.	E	FO64	2BN__	24MR___	4MD___	MARFORRES_	F/O/E/64/24M	DCT
1098.	F	FO65	2BN__	24MR___	4MD___	MARFORRES_	F/O/F/65/24M	DCT
1099.	G	FO66	2BN__	24MR___	4MD___	MARFORRES_	F/O/G/66/24M	DCT
1100.	_	FSCC	3BN__	24MR___	4MD___	MARFORRES_	F/S/C/3_/24M	AFATDS
1101.	_	TCO_	3BN__	24MR___	4MD___	MARFORRES_	_/_/_/__/___	MCS
1102.	_	IAS_	3BN__	24MR___	4MD___	MARFORRES_	_/_/_/__/___	ASAS
1103.	_	FWD_	3BN__	24MR___	4MD___	MARFORRES_	F/W/D/3_/24M	AFATDS
1104.	F	TCO	3BN__	24MR___	4MD___	MARFORRES_	_/_/_/__/___	MCS
1105.	F	IAS_	3BN__	24MR___	4MD___	MARFORRES_	_/_/_/__/___	ASAS
1106.	_	TACP	3BN__	24MR___	4MD___	MARFORRES_	T/A/C/76/24M	DCT
1107.	_	WPNS	3BN__	24MR___	4MD___	MARFORRES_	W/P/N/3_/24M	AFATDS
1108.	1	MTR_	3BN__	24MR___	4MD___	MARFORRES_	1/8/M/3_/24M	MBC
1109.	2	MTR_	3BN__	24MR___	4MD___	MARFORRES_	2/8/M/3_/24M	MBC
1110.	I	FO67	3BN__	24MR___	4MD___	MARFORRES_	F/O/I/67/24M	DCT
1111.	K	FO68	3BN__	24MR___	4MD___	MARFORRES_	F/O/K/68/24M	DCT
1112.	L	FO69	3BN__	24MR___	4MD___	MARFORRES_	F/O/L/69/24M	DCT
1113.	_	FSCC	_____	25MR___	4MD___	MARFORRES_	F/S/C/25/MR_	AFATDS
1114.	_	TCO_	_____	25MR___	4MD___	MARFORRES_	_/_/_/__/___	MCS
1115.	_	IAS_	_____	25MR___	4MD___	MARFORRES_	_/_/_/__/___	ASAS
1116.	_	FSCC	FWD__	25MR___	4MD___	MARFORRES_	F/W/D/25/MR_	AFATDS
1117.	_	TCO	FWD__	25MR___	4MD___	MARFORRES_	_/_/_/__/___	MCS
1118.	_	IAS_	FWD__	25MR___	4MD___	MARFORRES_	_/_/_/__/___	ASAS
1119.	_	FAC_	25___	25MR___	4MD___	MARFORRES_	F/A/C/25/25M	DCT
1120.	_	FSCC	1BN__	25MR___	4MD___	MARFORRES_	F/S/C/1_/25M	AFATDS
1121.	_	TCO_	1BN__	25MR___	4MD___	MARFORRES_	_/_/_/__/___	MCS
1122.	_	IAS_	1BN__	25MR___	4MD___	MARFORRES_	_/_/_/__/___	ASAS
1123.	_	FWD_	1BN__	25MR___	4MD___	MARFORRES_	F/W/D/1_/25M	AFATDS
1124.	F	TCO_	1BN__	25MR___	4MD___	MARFORRES_	_/_/_/__/___	MCS
1125.	F	IAS_	1BN__	25MR___	4MD___	MARFORRES_	_/_/_/__/___	ASAS
1126.	_	TACP	1BN__	25MR___	4MD___	MARFORRES_	T/A/C/77/125	DCT
1127.	_	WPNS	1BN__	25MR___	4MD___	MARFORRES_	W/P/N/1_/25M	AFATDS
1128.	1	MTR_	1BN__	25MR___	4MD___	MARFORRES_	1/8/M/1_/25M	MBC
1129.	2	MTR_	1BN__	25MR___	4MD___	MARFORRES_	2/8/M/1_/25M	MBC

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1130. A FO81 1BN__ 25MR___ 4MD___ MARFORRES_    F/O/A/81/25M      DCT
1131. B FO82 1BN__ 25MR___ 4MD___ MARFORRES_    F/O/B/82/25M      DCT
1132. C FO83 1BN__ 25MR___ 4MD___ MARFORRES_    F/O/C/83/25M      DCT
1133. _ FSCC 2BN__ 25MR___ 4MD___ MARFORRES_    F/S/C/2_/25M      AFATDS
1134. _ TCO_ 2BN__ 25MR___ 4MD___ MARFORRES_    _/_/_/__/___      MCS
1135. _ IAS_ 2BN__ 25MR___ 4MD___ MARFORRES_    _/_/_/__/___      ASAS
1136. _ FWD_ 2BN__ 25MR___ 4MD___ MARFORRES_    F/W/D/2_/25M      AFATDS
1137. F TCO  2BN__ 25MR___ 4MD___ MARFORRES_    _/_/_/__/___      MCS
1138. F IAS_ 2BN__ 25MR___ 4MD___ MARFORRES_    _/_/_/__/___      ASAS
1139. _ TACP 2BN__ 25MR___ 4MD___ MARFORRES_    T/A/C/78/225      DCT
1140. _ WPNS 2BN__ 25MR___ 4MD___ MARFORRES_    W/P/N/2_/25M      AFATDS
1141. 1 MTR_ 2BN__ 25MR___ 4MD___ MARFORRES_    1/8/M/2_/25M      MBC
1142. 2 MTR_ 2BN__ 25MR___ 4MD___ MARFORRES_    2/8/M/2_/25M      MBC
1143. E FO84 2BN__ 25MR___ 4MD___ MARFORRES_    F/O/E/84/25M      DCT
1144. F FO85 2BN__ 25MR___ 4MD___ MARFORRES_    F/O/F/85/25M      DCT
1145. G FO86 2BN__ 25MR___ 4MD___ MARFORRES_    F/O/G/86/25M      DCT
1146. _ FSCC 3BN__ 25MR___ 4MD___ MARFORRES_    F/S/C/3_/25M      AFATDS
1147. _ TCO  3BN__ 25MR___ 4MD___ MARFORRES_    _/_/_/__/___      MCS
1148. _ IAS_ 3BN__ 25MR___ 4MD___ MARFORRES_    _/_/_/__/___      ASAS
1149. _ FWD_ 3BN__ 25MR___ 4MD___ MARFORRES_    F/W/D/3_/25M      AFATDS
1150. F TCO_ 3BN__ 25MR___ 4MD___ MARFORRES_    _/_/_/__/___      MCS
1151. F IAS_ 3BN__ 25MR___ 4MD___ MARFORRES_    _/_/_/__/___      ASAS
1152. _ TACP 3BN__ 25MR___ 4MD___ MARFORRES_    T/A/C/79/325      DCT
1153. _ WPNS 3BN__ 25MR___ 4MD___ MARFORRES_    W/P/N/3_/25M      AFATDS
1154. 1 MTR_ 3BN__ 25MR___ 4MD___ MARFORRES_    1/8/M/3_/25M      MBC
1155. 2 MTR_ 3BN__ 25MR___ 4MD___ MARFORRES_    2/8/M/3_/25M      MBC
1156. I FO87 3BN__ 25MR___ 4MD___ MARFORRES_    F/O/I/87/25M      DCT
1157. K FO88 3BN__ 25MR___ 4MD___ MARFORRES_    F/O/K/88/25M      DCT
1158. L FO89 3BN__ 25MR___ 4MD___ MARFORRES_    F/O/L/89/25M      DCT
1159. _ FDC_ _____ 14MR___ 4MD___ MARFORRES_    F/D/C/14/MR_      AFATDS
1160. _ TCO_ _____ 14MR___ 4MD___ MARFORRES_    _/_/_/__/___      MCS
1161. _ IAS_ _____ 14MR___ 4MD___ MARFORRES_    _/_/_/__/___      ASAS
1162. _ TPC_ _____ 14MR___ 4MD___ MARFORRES_    T/P/C/14/MR_      AFATDS
1163. _ TPC_ FWD__ 14MR___ 4MD___ MARFORRES_    F/W/D/14/TPC      AFATDS
1164. _ CBR_ 01___ 14MR___ 4MD___ MARFORRES_    C/B/R/01/14M      Q-36
1165. _ CBR_ 02___ 14MR___ 4MD___ MARFORRES_    C/B/R/02/14M      Q-36
1166. _ CBR_ 03___ 14MR___ 4MD___ MARFORRES_    C/B/R/03/14M      Q-36
1167. _ CBR_ 04___ 14MR___ 4MD___ MARFORRES_    C/B/R/04/14M      Q-36
1168. _ MET_ 01___ 14MR___ 4MD___ MARFORRES_    M/E/T/01/14M      MDS
1169. _ MET_ 02___ 14MR___ 4MD___ MARFORRES_    M/E/T/02/14M      MDS
1170. _ MET_ 03___ 14MR___ 4MD___ MARFORRES_    M/E/T/03/14M      MDS
1171. _ MET_ 04___ 14MR___ 4MD___ MARFORRES_    M/E/T/04/14M      MDS
1172. _ FDC_ FWD__ 14MR___ 4MD___ MARFORRES_    F/W/D/14/MR_      AFATDS
1173. _ TCO_ FWD__ 14MR___ 4MD___ MARFORRES_    _/_/_/__/___      MCS
1174. _ IAS_ FWD__ 14MR___ 4MD___ MARFORRES_    _/_/_/__/___      ASAS
1175. _ FDC_ 1BN__ 14MR___ 4MD___ MARFORRES_    F/D/C/1_/14M      AFATDS
1176. _ TCO_ 1BN__ 14MR___ 4MD___ MARFORRES_    _/_/_/__/___      MCS
1177. _ IAS_ 1BN__ 14MR___ 4MD___ MARFORRES_    _/_/_/__/___      ASAS
1178. _ FWD_ 1BN__ 14MR___ 4MD___ MARFORRES_    F/W/D/1_/14M      AFATDS
1179. F TCO_ 1BN__ 14MR___ 4MD___ MARFORRES_    _/_/_/__/___      MCS
1180. F IAS_ 1BN__ 14MR___ 4MD___ MARFORRES_    _/_/_/__/___      ASAS
1181. _ FDCA 1BN__ 14MR___ 4MD___ MARFORRES_    _/_/A/1_/14M      AFATDS
1182. _ BCSA 1BN__ 14MR___ 4MD___ MARFORRES_    _/1/A/1_/14M      BCS
1183. _ FDCB 1BN__ 14MR___ 4MD___ MARFORRES_    _/_/B/1_/14M      AFATDS
1184. _ BCSB 1BN__ 14MR___ 4MD___ MARFORRES_    _/1/B/1_/14M      BCS
1185. _ FDCC 1BN__ 14MR___ 4MD___ MARFORRES_    _/_/C/1_/14M      AFATDS
1186. _ BCSC 1BN__ 14MR___ 4MD___ MARFORRES_    _/1/C/1_/14M      BCS
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1187.	_	FDCD	1BN__	14MR___	4MD___	MARFORRES_	_/_/D/1_/14M	AFATDS
1188.	_	BCSD	1BN__	14MR___	4MD___	MARFORRES_	_/1/D/1_/14M	BCS
1189.	_	FDC_	2BN__	14MR___	4MD___	MARFORRES_	F/D/C/2_/14M	AFATDS
1190.	_	TCO_	2BN__	14MR___	4MD___	MARFORRES_	_/_/_/__/___	MCS
1191.	_	IAS_	2BN__	14MR___	4MD___	MARFORRES_	_/_/_/__/___	ASAS
1192.	_	FWD_	2BN__	14MR___	4MD___	MARFORRES_	F/W/D/2_/14M	AFATDS
1193.	F	TCO_	2BN__	14MR___	4MD___	MARFORRES_	_/_/_/__/___	MCS
1194.	F	IAS_	2BN__	14MR___	4MD___	MARFORRES_	_/_/_/__/___	ASAS
1195.	_	FDCE	2BN__	14MR___	4MD___	MARFORRES_	_/_/E/2_/14M	AFATDS
1196.	_	BCSE	2BN__	14MR___	4MD___	MARFORRES_	_/1/E/2_/14M	BCS
1197.	_	FDCF	2BN__	14MR___	4MD___	MARFORRES_	_/_/F/2_/14M	AFATDS
1198.	_	BCSF	2BN__	14MR___	4MD___	MARFORRES_	_/1/F/2_/14M	BCS
1199.	_	FDCG	2BN__	14MR___	4MD___	MARFORRES_	_/_/G/2_/14M	AFATDS
1200.	_	BCSG	2BN__	14MR___	4MD___	MARFORRES_	_/1/G/2_/14M	BCS
1201.	_	FDCH	2BN__	14MR___	4MD___	MARFORRES_	_/_/H/2_/14M	AFATDS
1202.	_	BCSH	2BN__	14MR___	4MD___	MARFORRES_	_/1/H/2_/14M	BCS
1203.	_	FDC_	3BN__	14MR___	4MD___	MARFORRES_	F/D/C/3_/14M	AFATDS
1204.	_	TCO_	3BN__	14MR___	4MD___	MARFORRES_	_/_/_/__/___	MCS
1205.	_	IAS_	3BN__	14MR___	4MD___	MARFORRES_	_/_/_/__/___	ASAS
1206.	_	FWD_	3BN__	14MR___	4MD___	MARFORRES_	F/W/D/3_/14M	AFATDS
1207.	F	TCO_	3BN__	14MR___	4MD___	MARFORRES_	_/_/_/__/___	MCS
1208.	F	IAS_	3BN__	14MR___	4MD___	MARFORRES_	_/_/_/__/___	ASAS
1209.	_	FDCI	3BN__	14MR___	4MD___	MARFORRES_	_/_/I/3_/14M	AFATDS
1210.	_	BCSI	3BN__	14MR___	4MD___	MARFORRES_	_/1/I/3_/14M	BCS
1211.	_	FDCK	3BN__	14MR___	4MD___	MARFORRES_	_/_/K/3_/14M	AFATDS
1212.	_	BCSK	3BN__	14MR___	4MD___	MARFORRES_	_/1/K/3_/14M	BCS
1213.	_	FDCL	3BN__	14MR___	4MD___	MARFORRES_	_/_/L/3_/14M	AFATDS
1214.	_	BCSL	3BN__	14MR___	4MD___	MARFORRES_	_/1/L/3_/14M	BCS
1215.	_	FDCM	3BN__	14MR___	4MD___	MARFORRES_	_/_/M/3_/14M	AFATDS
1216.	_	BCSM	3BN__	14MR___	4MD___	MARFORRES_	_/1/M/3_/14M	BCS
1217.	_	FDC_	4BN__	14MR___	4MD___	MARFORRES_	F/D/C/4_/14M	AFATDS
1218.	_	TCO_	4BN__	14MR___	4MD___	MARFORRES_	_/_/_/__/___	MCS
1219.	_	IAS_	4BN__	14MR___	4MD___	MARFORRES_	_/_/_/__/___	ASAS
1220.	_	FWD_	4BN__	14MR___	4MD___	MARFORRES_	F/W/D/4_/14M	AFATDS
1221.	F	TCO_	4BN__	14MR___	4MD___	MARFORRES_	_/_/_/__/___	MCS
1222.	F	IAS_	4BN__	14MR___	4MD___	MARFORRES_	_/_/_/__/___	ASAS
1223.	_	FDCN	4BN__	14MR___	4MD___	MARFORRES_	_/_/N/4_/14M	AFATDS
1224.	_	BCSN	4BN__	14MR___	4MD___	MARFORRES_	_/1/N/4_/14M	BCS
1225.	_	FDCO	4BN__	14MR___	4MD___	MARFORRES_	_/_/O/4_/14M	AFATDS
1226.	_	BCSO	4BN__	14MR___	4MD___	MARFORRES_	_/1/O/4_/14M	BCS
1227.	_	FDCP	4BN__	14MR___	4MD___	MARFORRES_	_/_/P/4_/14M	AFATDS
1228.	_	BCSP	4BN__	14MR___	4MD___	MARFORRES_	_/1/P/4_/14M	BCS
1229.	_	FDCQ	4BN__	14MR___	4MD___	MARFORRES_	_/_/Q/4_/14M	AFATDS
1230.	_	BCSQ	4BN__	14MR___	4MD___	MARFORRES_	_/1/Q/4_/14M	BCS
1231.	_	FDC_	5BN__	14MR___	4MD___	MARFORRES_	F/D/C/5_/14M	AFATDS
1232.	_	TCO_	5BN__	14MR___	4MD___	MARFORRES_	_/_/_/__/___	MCS
1233.	_	IAS_	5BN__	14MR___	4MD___	MARFORRES_	_/_/_/__/___	ASAS
1234.	_	FWD_	5BN__	14MR___	4MD___	MARFORRES_	F/W/D/5_/14M	AFATDS
1235.	F	TCO_	5BN__	14MR___	4MD___	MARFORRES_	_/_/_/__/___	MCS
1236.	F	IAS_	5BN__	14MR___	4MD___	MARFORRES_	_/_/_/__/___	ASAS
1237.	_	FDCR	5BN__	14MR___	4MD___	MARFORRES_	_/_/R/5_/14M	AFATDS
1238.	_	BCSR	5BN__	14MR___	4MD___	MARFORRES_	_/1/R/5_/14M	BCS
1239.	_	FDCS	5BN__	14MR___	4MD___	MARFORRES_	_/_/S/5_/14M	AFATDS
1240.	_	BCSS	5BN__	14MR___	4MD___	MARFORRES_	_/1/S/5_/14M	BCS
1241.	_	FDCT	5BN__	14MR___	4MD___	MARFORRES_	_/_/T/5_/14M	AFATDS
1242.	_	BCST	5BN__	14MR___	4MD___	MARFORRES_	_/1/T/5_/14M	BCS
1243.	_	FDCU	5BN__	14MR___	4MD___	MARFORRES_	_/_/U/5_/14M	AFATDS

1244. _ BCSU 5BN__ 14MR___ 4MD___ MARFORRES_ _/1/U/5_/14M BCS

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US NAVAL SHIPS

GUIDED MISSILE CRUISERS
TICONDEROGA CLASS

1266. _ USS_ _____ __TICON DEROGA CG_47_____ _/_/_/__/___ NGF
1267. _ USS_ _____ _____YO RKTOWN CG_48_____ _/_/_/__/___ NGF
1268. _ USS_ _____ ____VIN CENNES CG_49_____ _/_/_/__/___ NGF
1269. _ USS_ _____ _VALLEY _FORGE CG_50_____ _/_/_/__/___ NGF
1270. _ USS_ ____T HOMAS_S _GATES CG_51_____ _/_/_/__/___ NGF
1271. _ USS_ _____ __BUNKE R_HILL CG_52_____ _/_/_/__/___ NGF
1272. _ USS_ _____ ___MOBI LE_BAY CG_53_____ _/_/_/__/___ NGF
1273. _ USS_ _____ _____AN TIETAM CG_54_____ _/_/_/__/___ NGF
1274. _ USS_ _____ ___LEYT E_GULF CG_55_____ _/_/_/__/___ NGF
1275. _ USS_ _____ __SAN_J ACINTO CG_56_____ _/_/_/__/___ NGF
1276. _ USS_ ____L AKE_CHA MPLAIN CG_57_____ _/_/_/__/___ NGF
1277. _ USS_ ____P HILIPPI NE_SEA CG_58_____ _/_/_/__/___ NGF
1278. _ USS_ _____ ____PRI NCETON CG_59_____ _/_/_/__/___ NGF
1279. _ USS_ _____ _____NO RMANDY CG_60_____ _/_/_/__/___ NGF
1280. _ USS_ _____ _____MO NTEREY CG_61_____ _/_/_/__/___ NGF
1281. _ USS_ __CHA NCELLOR SVILLE CG_62_____ _/_/_/__/___ NGF
1282. _ USS_ _____ ______C OWPENS CG_63_____ _/_/_/__/___ NGF
1283. _ USS_ _____ ___GETT YSBURG CG_64_____ _/_/_/__/___ NGF
1284. _ USS_ _____ _____ CHOSIN CG_65_____ _/_/_/__/___ NGF
1285. _ USS_ _____ _____HU E_CITY CG_66_____ _/_/_/__/___ NGF
1286. _ USS_ _____ _____ SHILOH CG_67_____ _/_/_/__/___ NGF
1287. _ USS_ _____ _____ _ANZIO CG_68_____ _/_/_/__/___ NGF
1288. _ USS_ _____ ____VIC KSBURG CG_69_____ _/_/_/__/___ NGF
1289. _ USS_ _____ ____LAK E_ERIE CG_70_____ _/_/_/__/___ NGF
1290. _ USS_ ___CA PE_ST._ GEORGE CG_71_____ _/_/_/__/___ NGF
1291. _ USS_ _____ ___VELL A_GULF CG_72_____ _/_/_/__/___ NGF
1292. _ USS_ _____ ___PORT _ROYAL CG_73_____ _/_/_/__/___ NGF

CALORIFORNIA CLASS

1293. _ USS_ _____ ___CALI FORNIA CGN_36____ _/_/_/__/__ NGF
1294. _ USS_ ____S OUTH_CA ROLINA CGN_37____ _/_/_/__/__ NGF

GUIDED MISSILE FRIGATES
OLIVER HAZARD PERRY CLASS

1295. _ USS_ _____ ____McI NERNEY FFG_8_____ _/_/_/__/___ NGF
1296. _ USS_ _____ ____WAD SWORTH FFG_9_____ _/_/_/__/___ NGF
1297. _ USS_ _____ _____ _CLARK FFG_11____ _/_/_/__/___ NGF
1298. _ USS_ _____ GEORGE_ PHILIP FFG_12____ _/_/_/__/___ NGF
1299. _ USS_ _SAMU EL_E._M ORISON FFG_13____ _/_/_/__/___ NGF
1300. _ USS_ _____ _____ _SIDES FFG_14____ _/_/_/__/___ NGF
1301. _ USS_ _____ _____E STOCIN FFG_15____ _/_/_/__/___ NGF
1302. _ USS_ _____ JOHN_A. _MOORE FFG_19____ _/_/_/__/___ NGF
1303. _ USS_ _____ _____F AHRION FFG_22____ _/_/_/__/___ NGF
1304. _ USS_ ___LE WIS_B._ PULLER FFG_23____ _/_/_/__/___ NGF
1305. _ USS_ _____ _____ _BOONE FFG_28____ _/_/_/__/___ NGF
1306. _ USS_ _STEP HEN_W._ GROVES FFG_29____ _/_/_/__/___ NGF
1307. _ USS_ _____ _____ __REID FFG_30____ _/_/_/__/___ NGF
1308. _ USS_ _____ _____ _STARK FFG_31____ _/_/_/__/___ NGF
1309. _ USS_ _____ _JOHN_L ._HALL FFG_32____ _/_/_/__/___ NGF
1310. _ USS_ _____ _____ JARETT FFG_33____ _/_/_/__/___ NGF
1311. _ USS_ _____ __AUBRY _FITCH FFG_34____ _/_/_/__/___ NGF
1312. _ USS_ _____ ____UND ERWOOD FFG_36____ _/_/_/__/___ NGF
1313. _ USS_ _____ ____CRO MMELIN FFG_37____ _/_/_/__/___ NGF
1314. _ USS_ _____ _____ _CURTS FFG_38____ _/_/_/__/___ NGF
1315. _ USS_ _____ _____ _DOYLE FFG_39____ _/_/_/__/___ NGF
1316. _ USS_ _____ ___HALY BURTON FFG_40____ _/_/_/__/___ NGF
1317. _ USS_ _____ _____Mc CLUSKY FFG_41____ _/_/_/__/___ NGF
1318. _ USS_ _____ _____KL AKRING FFG_42____ _/_/_/__/___ NGF
1319. _ USS_ _____ _____ _THACH FFG_43____ _/_/_/__/___ NGF
1320. _ USS_ _____ _____ DEWERT FFG_45____ _/_/_/__/___ NGF
1321. _ USS_ _____ _____ _RENTZ FFG_46____ _/_/_/__/___ NGF
1322. _ USS_ _____ _____NI CHOLAS FFG_47____ _/_/_/__/___ NGF
1323. _ USS_ _____ ___VAND EGRIFT FFG_48____ _/_/_/__/___ NGF
1324. _ USS_ _____ _____B RADLEY FFG_49____ _/_/_/__/___ NGF
1325. _ USS_ _____ _____ TAYLOR FFG_50____ _/_/_/__/___ NGF
1326. _ USS_ _____ _____ __GARY FFG_51____ _/_/_/__/___ NGF
1327. _ USS_ _____ _____ __CARR FFG_52____ _/_/_/__/___ NGF
1328. _ USS_ _____ _____ _HAWES FFG_53____ _/_/_/__/___ NGF
1329. _ USS_ _____ _____ __FORD FFG_54____ _/_/_/__/___ NGF
1330. _ USS_ _____ _____ _ELROD FFG_55____ _/_/_/__/___ NGF
1331. _ USS_ _____ _____S IMPSON FFG_56____ _/_/_/__/___ NGF
1332. _ USS_ _____ _REUBEN _JAMES FFG_57____ _/_/_/__/___ NGF
1333. _ USS_ _SAMU EL_B._R OBERTS FFG_58____ _/_/_/__/___ NGF
1334. _ USS_ _____ _____KA UFFMAN FFG_59____ _/_/_/__/___ NGF
1335. _ USS_ ___RO DNEY_M. _DAVIS FFG_60____ _/_/_/__/___ NGF
1336. _ USS_ _____ _____IN GRAHAM FFG_61____ _/_/_/__/___ NGF

DESTROYERS
ARLEIGH BURKE CLASS

1337. _ USS_ _____ ARLEIGH _BURKE DDG_51____ _/_/_/__/___ NGF
1338. _ USS_ _____ _____ _BARRY DDG_52____ _/_/_/__/___ NGF

1339. _ USS_ ___JO HN_PAUL _JONES DDG_53____ _/_/_/__/___ NGF
1340. _ USS_ _____ CURTIS_ WILBUR DDG_54____ _/_/_/__/___ NGF
1341. _ USS_ _____ _____ _STOUT DDG_55____ _/_/_/__/___ NGF
1342. _ USS_ ____J OHN_S._ McCAIN DDG_56____ _/_/_/__/___ NGF
1343. _ USS_ _____ _____M ITSHER DDG_57____ _/_/_/__/___ NGF
1344. _ USS_ _____ _____ LABOON DDG_58____ _/_/_/__/___ NGF
1345. _ USS_ _____ _____R USSELL DDG_59____ _/_/_/__/___ NGF
1346. _ USS_ _____ PAUL_HA MILTON DDG_60____ _/_/_/__/___ NGF
1347. _ USS_ _____ _____ RAMAGE DDG_61____ _/_/_/__/___ NGF
1348. _ USS_ _____ ___FITZ GERALD DDG_62____ _/_/_/__/___ NGF
1349. _ USS_ _____ _____S TETHAM DDG_63____ _/_/_/__/___ NGF
1350. _ USS_ _____ _____ CARNEY DDG_64____ _/_/_/__/___ NGF
1351. _ USS_ _____ _____B ENFOLD DDG_65____ _/_/_/__/___ NGF
1352. _ USS_ _____ _____GO NZALEZ DDG_66____ _/_/_/__/___ NGF
1353. _ USS_ _____ _____ COLE__ DDG_67____ _/_/_/__/___ NGF
1354. _ USS_ _____ THE_SUL LIVANS DDG_68____ _/_/_/__/___ NGF
1355. _ USS_ _____ _____ MILIUS DDG_69____ _/_/_/__/___ NGF
1356. _ USS_ _____ _____ HOPPER DDG_70____ _/_/_/__/___ NGF
1357. _ USS_ _____ _____ ROSS__ DDG_71____ _/_/_/__/___ NGF
1358. _ USS_ _____ _____ MAHAN_ DDG_72____ _/_/_/__/___ NGF
1359. _ USS_ _____ _____D ECATUR DDG_73____ _/_/_/__/___ NGF
1360. _ USS_ _____ _____M cFAUL_ DDG_74____ _/_/_/__/___ NGF
1361. _ USS_ _____ __DONAL D_COOK DDG_75____ _/_/_/__/___ NGF
1362. _ USS_ _____ _____H IGGINS DDG_76____ _/_/_/__/___ NGF
1363. _ USS_ _____ _____ O'KANE DDG_77____ _/_/_/__/___ NGF
1364. _ USS_ _____ _____ PORTER DDG_78____ _/_/_/__/___ NGF
1365. _ USS_ _____ _OSCAR_ AUSTIN DDG_79____ _/_/_/__/___ NGF
1366. _ USS_ _____ ____ROO SEVELT DDG_80____ _/_/_/__/___ NGF
1367. _ USS_ _WINS TON_CHU RCHILL DDG_81____ _/_/_/__/___ NGF

KIDD CLASS

1368. _ USS_ _____ _____ __KIDD DDG_993___ _/_/_/__/___ NGF
1369. _ USS_ _____ ____CAL LAGHAN DDG_994___ _/_/_/__/___ NGF
1370. _ USS_ _____ _____ _SCOTT DDG_995___ _/_/_/__/___ NGF
1371. _ USS_ _____ _____CH ANDLER DDG_996___ _/_/_/__/___ NGF

SPRUANCE CLASS

1372. _ USS_ _____ _____SP RUANCE DD_963____ _/_/_/__/___ NGF
1373. _ USS_ ____P AUL_F._ FOSTER DD_964____ _/_/_/__/___ NGF
1374. _ USS_ _____ _____K INKAID DD_965____ _/_/_/__/___ NGF
1375. _ USS_ _____ _____ HEWITT DD_966____ _/_/_/__/___ NGF
1376. _ USS_ _____ _____ ELLIOT DD_967____ _/_/_/__/___ NGF
1377. _ USS_ _ARTH UR_W._R ADFORD DD_968____ _/_/_/__/___ NGF
1378. _ USS_ _____ _____PE TERSON DD_969____ _/_/_/__/___ NGF
1379. _ USS_ _____ _____ CARON_ DD_970____ _/_/_/__/___ NGF
1380. _ USS_ _____ _DAVID_ R._RAY DD_971____ _/_/_/__/___ NGF
1381. _ USS_ _____ ____OLD ENDORF DD_972____ _/_/_/__/___ NGF
1382. _ USS_ _____ ___JOHN _YOUNG DD_973____ _/_/_/__/___ NGF
1383. _ USS_ ___CO MTE_DE_ GRASSE DD_974____ _/_/_/__/___ NGF
1384. _ USS_ _____ _____O 'BRIEN DD_975____ _/_/_/__/___ NGF
1385. _ USS_ _____ _____M ERRILL DD_976____ _/_/_/__/___ NGF
1386. _ USS_ _____ _____B RISCOE DD_977____ _/_/_/__/___ NGF
1387. _ USS_ _____ _____ STUMP_ DD_978____ _/_/_/__/___ NGF
1388. _ USS_ _____ _____CO NNOLLY DD_979____ _/_/_/__/___ NGF
1389. _ USS_ _____ __MOOSB RUGGER DD_980____ _/_/_/__/___ NGF

1390. _ USS_ _____ _JOHN_H ANCOCK DD-981____ _/_/_/__/___ NGF
1391. _ USS_ _____ ____NIC HOLSON DD_982____ _/_/_/__/___ NGF
1392. _ USS_ _____ _JOHN_R ODGERS DD_983____ _/_/_/__/___ NGF
1393. _ USS_ _____ _____LE FTWICH DD_984____ _/_/_/__/___ NGF
1394. _ USS_ _____ _____C USHING DD_985____ _/_/_/__/___ NGF
1395. _ USS_ _____ HARRY_W ._HILL DD_986____ _/_/_/__/___ NGF
1396. _ USS_ _____ _____O' BANNON DD_987____ _/_/_/__/___ NGF
1397. _ USS_ _____ _____ THORN_ DD_988____ _/_/_/__/___ NGF
1398. _ USS_ _____ _____ DEYO__ DD_989____ _/_/_/__/___ NGF
1399. _ USS_ _____ ____ING ERSOLL DD_990____ _/_/_/__/___ NGF
1400. _ USS_ _____ _____ FIFE__ DD_991____ _/_/_/__/___ NGF
1401. _ USS_ _____ _____FL ETCHER DD_992____ _/_/_/__/___ NGF
1402. _ USS_ _____ _____H AYLER_ DD_997____ _/_/_/__/___ NGF

ASSAULT SHIPS
WASP CLASS

1403. _ USS_ _____ _____ WASP__ LHD_1_____ _/5/D/54/1__ AFATDS
1404. _ USS_ _____ _____ ESSEX_ LHD_2_____ _/5/D/54/2__ AFATDS
1405. _ USS_ _____ ____KEA RSARGE LHD_3_____ _/5/D/54/3__ AFATDS
1406. _ USS_ _____ _____ BOXER_ LHD_4_____ _/5/D/54/4__ AFATDS
1407. _ USS_ _____ _____ BATAAN LHD_5_____ _/5/D/54/5__ AFATDS
1408. _ USS_ _BON_ HOMME R ICHARD LHD_6_____ _/5/D/54/6__ AFATDS

TARAWA CLASS

1409. _ USS_ _____ _____ TARAWA LHA_1_____ _/5/A/54/1__ AFATDS
1410. _ USS_ _____ _____ SAIPAN LHA_2_____ _/5/A/54/2__ AFATDS
1411. _ USS_ _____ _BELLEA U_WOOD LHA_3_____ _/5/A/54/3__ AFATDS
1412. _ USS_ _____ _____ NASSAU LHA_4_____ _/5/A/54/4__ AFATDS
1413. _ USS_ _____ _____P ELELIU LHA_5_____ _/5/A/54/5__ AFATDS

IWO JIMA CLASS

1414. _ USS_ _____ _____ GUAM__ LPH_9_____ _/5/H/54/9__ AFATDS
1415. _ USS_ _____ __NEW_O RLEANS LPH_11____ _/5/H/54/11_ AFATDS

AMPHIBIOUS COMMAND
BLUE RIDGE CLASS

1416. _ USS_ _____ ___BLUE _RIDGE LCC_19____ L/C/C/19/___ AFATDS
1417. _ USS_ _____ MOUNT_W HITNEY LCC_20____ L/C/C/20/___ AFATDS

LaSALLE AND CORONADO CLASS

1418. _ USS_ _____ _____La _SALLE AGF_3_____ A/G/F/3_/___ AFATDS
1419. _ USS_ _____ _____CO RONADO AGF_11____ A/G/F/11/___ AFATDS
1420.
1421.
1422.
1423.
1424.

ARMY MLRS UNITS

1425.	_	OPS_	_____	6-27__	75FA___	IIICORPS__	O/P/S/6_/27_	MLRS/LANCE
1426.	_	FDC_	_____	6-27__	75FA___	IIICORPS__	F/D/C/6_/27_	MLRS/LANCE
1427.	_	____	BTY_A	6-27__	75FA___	IIICORPS__	_/_/A/6_/27_	MLRS/LANCE
1428.	_	1PLT	BTY_A	6-27__	75FA___	IIICORPS__	_/1/A/6_/27_	MLRS/LANCE
1429.	1	1PLT	BTY_A	6-27__	75FA___	IIICORPS__	1/1/A/6_/27_	MLRS/LANCE
1430.	2	1PLT	BTY_A	6-27__	75FA___	IIICORPS__	2/1/A/6_/27_	MLRS/LANCE
1431.	3	1PLT	BTY_A	6-27__	75FA___	IIICORPS__	3/1/A/6_/27_	MLRS/LANCE
1432.	_	2PLT	BTY_A	6-27__	75FA___	IIICORPS__	_/2/A/6_/27_	MLRS/LANCE
1433.	1	2PLT	BTY_A	6-27__	75FA___	IIICORPS__	1/2/A/6_/27_	MLRS/LANCE
1434.	2	2PLT	BTY_A	6-27__	75FA___	IIICORPS__	2/2/A/6_/27_	MLRS/LANCE
1435.	3	2PLT	BTY_A	6-27__	75FA___	IIICORPS__	3/2/A/6_/27_	MLRS/LANCE
1436.	_	3PLT	BTY_A	6-27__	75FA___	IIICORPS__	_/3/A/6_/27_	MLRS/LANCE
1437.	1	3PLT	BTY_A	6-27__	75FA___	IIICORPS__	1/3/A/6_/27_	MLRS/LANCE
1438.	2	3PLT	BTY_A	6-27__	75FA___	IIICORPS__	2/3/A/6_/27_	MLRS/LANCE
1439.	3	3PLT	BTY_A	6-27__	75FA___	IIICORPS__	3/3/A/6_/27_	MLRS/LANCE
1440.	_	____	BTY_B	6-27__	75FA___	IIICORPS__	_/_/B/6_/27_	MLRS/LANCE
1441.	_	1PLT	BTY_B	6-27__	75FA___	IIICORPS__	_/1/B/6_/27_	MLRS/LANCE
1442.	1	1PLT	BTY_B	6-27__	75FA___	IIICORPS__	1/1/B/6_/27_	MLRS/LANCE
1443.	2	1PLT	BTY_B	6-27__	75FA___	IIICORPS__	2/1/B/6_/27_	MLRS/LANCE
1444.	3	1PLT	BTY_B	6-27__	75FA___	IIICORPS__	3/1/B/6_/27_	MLRS/LANCE
1445.	_	2PLT	BTY_B	6-27__	75FA___	IIICORPS__	_/2/B/6_/27_	MLRS/LANCE
1446.	1	2PLT	BTY_B	6-27__	75FA___	IIICORPS__	1/2/B/6_/27_	MLRS/LANCE
1447.	2	2PLT	BTY_B	6-27__	75FA___	IIICORPS__	2/2/B/6_/27_	MLRS/LANCE
1448.	3	2PLT	BTY_B	6-27__	75FA___	IIICORPS__	3/2/B/6_/27_	MLRS/LANCE
1449.	_	3PLT	BTY_B	6-27__	75FA___	IIICORPS__	_/3/B/6_/27_	MLRS/LANCE
1450.	1	3PLT	BTY_B	6-27__	75FA___	IIICORPS__	1/3/B/6_/27_	MLRS/LANCE
1451.	2	3PLT	BTY_B	6-27__	75FA___	IIICORPS__	2/3/B/6_/27_	MLRS/LANCE
1452.	3	3PLT	BTY_B	6-27__	75FA___	IIICORPS__	3/3/B/6_/27_	MLRS/LANCE
1453.	_	____	BTY_C	6-27__	75FA___	IIICORPS__	_/_/C/6_/27_	MLRS/LANCE
1454.	_	1PLT	BTY_C	6-27__	75FA___	IIICORPS__	_/1/C/6_/27_	MLRS/LANCE
1455.	1	1PLT	BTY_C	6-27__	75FA___	IIICORPS__	1/1/C/6_/27_	MLRS/LANCE
1456.	2	1PLT	BTY_C	6-27__	75FA___	IIICORPS__	2/1/C/6_/27_	MLRS/LANCE
1457.	3	1PLT	BTY_C	6-27__	75FA___	IIICORPS__	3/1/C/6_/27_	MLRS/LANCE
1458.	_	2PLT	BTY_C	6-27__	75FA___	IIICORPS__	_/2/C/6_/27_	MLRS/LANCE
1459.	1	2PLT	BTY_C	6-27__	75FA___	IIICORPS__	1/2/C/6_/27_	MLRS/LANCE
1460.	2	2PLT	BTY_C	6-27__	75FA___	IIICORPS__	2/2/C/6_/27_	MLRS/LANCE
1461.	3	2PLT	BTY_C	6-27__	75FA___	IIICORPS__	3/2/C/6_/27_	MLRS/LANCE
1462.	_	3PLT	BTY_C	6-27__	75FA___	IIICORPS__	_/3/C/6_/27_	MLRS/LANCE
1463.	1	3PLT	BTY_C	6-27__	75FA___	IIICORPS__	1/3/C/6_/27_	MLRS/LANCE
1464.	2	3PLT	BTY_C	6-27__	75FA___	IIICORPS__	2/3/C/6_/27_	MLRS/LANCE
1465.	3	3PLT	BTY_C	6-27__	75FA___	IIICORPS__	3/3/C/6_/27_	MLRS/LANCE
1466.	_	OPS_	_____	5-3___	17FA___	IIICORPS__	O/P/S/5_/3__	MLRS/LANCE
1467.	_	FDC_	_____	5-3___	17FA___	IIICORPS__	F/D/C/5_/3__	MLRS/LANCE
1468.	_	____	BTY_A	5-3___	17FA___	IIICORPS__	_/_/A/5_/3__	MLRS/LANCE
1469.	_	1PLT	BTY_A	5-3___	17FA___	IIICORPS__	_/1/A/5_/3__	MLRS/LANCE
1470.	1	1PLT	BTY_A	5-3___	17FA___	IIICORPS__	1/1/A/5_/3__	MLRS/LANCE
1471.	2	1PLT	BTY_A	5-3___	17FA___	IIICORPS__	2/1/A/5_/3__	MLRS/LANCE
1472.	3	1PLT	BTY_A	5-3___	17FA___	IIICORPS__	3/1/A/5_/3__	MLRS/LANCE
1473.	_	2PLT	BTY_A	5-3___	17FA___	IIICORPS__	_/2/A/5_/3__	MLRS/LANCE
1474.	1	2PLT	BTY_A	5-3___	17FA___	IIICORPS__	1/2/A/5_/3__	MLRS/LANCE
1475.	2	2PLT	BTY_A	5-3___	17FA___	IIICORPS__	2/2/A/5_/3__	MLRS/LANCE

1476.	3	2PLT	BTY_A	5-3___	17FA___	IIICORPS__	3/2/A/5_/3__	MLRS/LANCE
1477.	_	3PLT	BTY_A	5-3___	17FA___	IIICORPS__	_/3/A/5_/3__	MLRS/LANCE
1478.	1	3PLT	BTY_A	5-3___	17FA___	IIICORPS__	1/3/A/5_/3__	MLRS/LANCE
1479.	2	3PLT	BTY_A	5-3___	17FA___	IIICORPS__	2/3/A/5_/3__	MLRS/LANCE
1480.	3	3PLT	BTY_A	5-3___	17FA___	IIICORPS__	3/3/A/5_/3__	MLRS/LANCE
1481.	_	____	BTY_B	5-3___	17FA___	IIICORPS__	_/_/B/5_/3__	MLRS/LANCE
1482.	_	1PLT	BTY_B	5-3___	17FA___	IIICORPS__	_/1/B/5_/3__	MLRS/LANCE
1483.	1	1PLT	BTY_B	5-3___	17FA___	IIICORPS__	1/1/B/5_/3__	MLRS/LANCE
1484.	2	1PLT	BTY_B	5-3___	17FA___	IIICORPS__	2/1/B/5_/3__	MLRS/LANCE
1485.	3	1PLT	BTY_B	5-3___	17FA___	IIICORPS__	3/1/B/5_/3__	MLRS/LANCE
1486.	_	2PLT	BTY_B	5-3___	17FA___	IIICORPS__	_/2/B/5_/3__	MLRS/LANCE
1487.	1	2PLT	BTY_B	5-3___	17FA___	IIICORPS__	1/2/B/5_/3__	MLRS/LANCE
1488.	2	2PLT	BTY_B	5-3___	17FA___	IIICORPS__	2/2/B/5_/3__	MLRS/LANCE
1489.	3	2PLT	BTY_B	5-3___	17FA___	IIICORPS__	3/2/B/5_/3__	MLRS/LANCE
1490.	_	3PLT	BTY_B	5-3___	17FA___	IIICORPS__	_/3/B/5_/3__	MLRS/LANCE
1491.	1	3PLT	BTY_B	5-3___	17FA___	IIICORPS__	1/3/B/5_/3__	MLRS/LANCE
1492.	2	3PLT	BTY_B	5-3___	17FA___	IIICORPS__	2/3/B/5_/3__	MLRS/LANCE
1493.	3	3PLT	BTY_B	5-3___	17FA___	IIICORPS__	3/3/B/5_/3__	MLRS/LANCE
1494.	_	____	BTY_C	5-3___	17FA___	IIICORPS__	_/_/C/5_/3__	MLRS/LANCE
1495.	_	1PLT	BTY_C	5-3___	17FA___	IIICORPS__	_/1/C/5_/3__	MLRS/LANCE
1496.	1	1PLT	BTY_C	5-3___	17FA___	IIICORPS__	1/1/C/5_/3__	MLRS/LANCE
1497.	2	1PLT	BTY_C	5-3___	17FA___	IIICORPS__	2/1/C/5_/3__	MLRS/LANCE
1498.	3	1PLT	BTY_C	5-3___	17FA___	IIICORPS__	3/1/C/5_/3__	MLRS/LANCE
1499.	_	2PLT	BTY_C	5-3___	17FA___	IIICORPS__	_/2/C/5_/3__	MLRS/LANCE
1500.	1	2PLT	BTY_C	5-3___	17FA___	IIICORPS__	1/2/C/5_/3__	MLRS/LANCE
1501.	2	2PLT	BTY_C	5-3___	17FA___	IIICORPS__	2/2/C/5_/3__	MLRS/LANCE
1502.	3	2PLT	BTY_C	5-3___	17FA___	IIICORPS__	3/2/C/5_/3__	MLRS/LANCE
1503.	_	3PLT	BTY_C	5-3___	17FA___	IIICORPS__	_/3/C/5_/3__	MLRS/LANCE
1504.	1	3PLT	BTY_C	5-3___	17FA___	IIICORPS__	1/3/C/5_/3__	MLRS/LANCE
1505.	2	3PLT	BTY_C	5-3___	17FA___	IIICORPS__	2/3/C/5_/3__	MLRS/LANCE
1506.	3	3PLT	BTY_C	5-3___	17FA___	IIICORPS__	3/3/C/5_/3__	MLRS/LANCE
1507.	_	OPS_	_____	3-13__	75FA___	IIICORPS__	O/P/S/3_/13_	MLRS/LANCE
1508.	_	FDC_	_____	3-13__	75FA___	IIICORPS__	F/D/C/3_/13_	MLRS/LANCE
1509.	_	____	BTY_A	3-13__	75FA___	IIICORPS__	_/_/A/3_/13_	MLRS/LANCE
1510.	_	1PLT	BTY_A	3-13__	75FA___	IIICORPS__	_/1/A/3_/13_	MLRS/LANCE
1511.	1	1PLT	BTY_A	3-13__	75FA___	IIICORPS__	1/1/A/3_/13_	MLRS/LANCE
1512.	2	1PLT	BTY_A	3-13__	75FA___	IIICORPS__	2/1/A/3_/13_	MLRS/LANCE
1513.	3	1PLT	BTY_A	3-13__	75FA___	IIICORPS__	3/1/A/3_/13_	MLRS/LANCE
1514.	_	2PLT	BTY_A	3-13__	75FA___	IIICORPS__	_/2/A/3_/13_	MLRS/LANCE
1515.	1	2PLT	BTY_A	3-13__	75FA___	IIICORPS__	1/2/A/3_/13_	MLRS/LANCE
1516.	2	2PLT	BTY_A	3-13__	75FA___	IIICORPS__	2/2/A/3_/13_	MLRS/LANCE
1517.	3	2PLT	BTY_A	3-13__	75FA___	IIICORPS__	3/2/A/3_/13_	MLRS/LANCE
1518.	_	3PLT	BTY_A	3-13__	75FA___	IIICORPS__	_/3/A/3_/13_	MLRS/LANCE
1519.	1	3PLT	BTY_A	3-13__	75FA___	IIICORPS__	1/3/A/3_/13_	MLRS/LANCE
1520.	2	3PLT	BTY_A	3-13__	75FA___	IIICORPS__	2/3/A/3_/13_	MLRS/LANCE
1521.	3	3PLT	BTY_A	3-13__	75FA___	IIICORPS__	3/3/A/3_/13_	MLRS/LANCE
1522.	_	____	BTY_B	3-13__	75FA___	IIICORPS__	_/_/B/3_/13_	MLRS/LANCE
1523.	_	1PLT	BTY_B	3-13__	75FA___	IIICORPS__	_/1/B/3_/13_	MLRS/LANCE
1524.	1	1PLT	BTY_B	3-13__	75FA___	IIICORPS__	1/1/B/3_/13_	MLRS/LANCE
1525.	2	1PLT	BTY_B	3-13__	75FA___	IIICORPS__	2/1/B/3_/13_	MLRS/LANCE
1526.	3	1PLT	BTY_B	3-13__	75FA___	IIICORPS__	3/1/B/3_/13_	MLRS/LANCE
1527.	_	2PLT	BTY_B	3-13__	75FA___	IIICORPS__	_/2/B/3_/13_	MLRS/LANCE
1528.	1	2PLT	BTY_B	3-13__	75FA___	IIICORPS__	1/2/B/3_/13_	MLRS/LANCE
1529.	2	2PLT	BTY_B	3-13__	75FA___	IIICORPS__	2/2/B/3_/13_	MLRS/LANCE
1530.	3	2PLT	BTY_B	3-13__	75FA___	IIICORPS__	3/2/B/3_/13_	MLRS/LANCE
1531.	_	3PLT	BTY_B	3-13__	75FA___	IIICORPS__	_/3/B/3_/13_	MLRS/LANCE
1532.	1	3PLT	BTY_B	3-13__	75FA___	IIICORPS__	1/3/B/3_/13_	MLRS/LANCE

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1533. 2 3PLT BTY_B 3-13__ 75FA___ IIICORPS__    2/3/B/3_/13_      MLRS/LANCE
1534. 3 3PLT BTY_B 3-13__ 75FA___ IIICORPS__    3/3/B/3_/13_      MLRS/LANCE
1535. _ ____ BTY_C 3-13__ 75FA___ IIICORPS__    _/_/C/3_/13_      MLRS/LANCE
1536. _ 1PLT BTY_C 3-13__ 75FA___ IIICORPS__    _/1/C/3_/13_      MLRS/LANCE
1537. 1 1PLT BTY_C 3-13__ 75FA___ IIICORPS__    1/1/C/3_/13_      MLRS/LANCE
1538. 2 1PLT BTY_C 3-13__ 75FA___ IIICORPS__    2/1/C/3_/13_      MLRS/LANCE
1539. 3 1PLT BTY_C 3-13__ 75FA___ IIICORPS__    3/1/C/3_/13_      MLRS/LANCE
1540. _ 2PLT BTY_C 3-13__ 75FA___ IIICORPS__    _/2/C/3_/13_      MLRS/LANCE
1541. 1 2PLT BTY_C 3-13__ 75FA___ IIICORPS__    1/2/C/3_/13_      MLRS/LANCE
1542. 2 2PLT BTY_C 3-13__ 75FA___ IIICORPS__    2/2/C/3_/13_      MLRS/LANCE
1543. 3 2PLT BTY_C 3-13__ 75FA___ IIICORPS__    3/2/C/3_/13_      MLRS/LANCE
1544. _ 3PLT BTY_C 3-13__ 75FA___ IIICORPS__    _/3/C/3_/13_      MLRS/LANCE
1545. 1 3PLT BTY_C 3-13__ 75FA___ IIICORPS__    1/3/C/3_/13_      MLRS/LANCE
1546. 2 3PLT BTY_C 3-13__ 75FA___ IIICORPS__    2/3/C/3_/13_      MLRS/LANCE
1547. 3 3PLT BTY_C 3-13__ 75FA___ IIICORPS__    3/3/C/3_/13_      MLRS/LANCE
1548. _ OPS_ _____ 1-12__ 17FA___ IIICORPS__    O/P/S/1_/12_      MLRS/LANCE
1549. _ FDC_ _____ 1-12__ 17FA___ IIICORPS__    F/D/C/1_/12_      MLRS/LANCE
1550. _ ____ BTY_A 1-12__ 17FA___ IIICORPS__    _/_/A/1_/12_      MLRS/LANCE
1551. _ 1PLT BTY_A 1-12__ 17FA___ IIICORPS__    _/1/A/1_/12_      MLRS/LANCE
1552. 1 1PLT BTY_A 1-12__ 17FA___ IIICORPS__    1/1/A/1_/12_      MLRS/LANCE
1553. 2 1PLT BTY_A 1-12__ 17FA___ IIICORPS__    2/1/A/1_/12_      MLRS/LANCE
1554. 3 1PLT BTY_A 1-12__ 17FA___ IIICORPS__    3/1/A/1_/12_      MLRS/LANCE
1555. _ 2PLT BTY_A 1-12__ 17FA___ IIICORPS__    _/2/A/1_/12_      MLRS/LANCE
1556. 1 2PLT BTY_A 1-12__ 17FA___ IIICORPS__    1/2/A/1_/12_      MLRS/LANCE
1557. 2 2PLT BTY_A 1-12__ 17FA___ IIICORPS__    2/2/A/1_/12_      MLRS/LANCE
1558. 3 2PLT BTY_A 1-12__ 17FA___ IIICORPS__    3/2/A/1_/12_      MLRS/LANCE
1559. _ 3PLT BTY_A 1-12__ 17FA___ IIICORPS__    _/3/A/1_/12_      MLRS/LANCE
1560. 1 3PLT BTY_A 1-12__ 17FA___ IIICORPS__    1/3/A/1_/12_      MLRS/LANCE
1561. 2 3PLT BTY_A 1-12__ 17FA___ IIICORPS__    2/3/A/1_/12_      MLRS/LANCE
1562. 3 3PLT BTY_A 1-12__ 17FA___ IIICORPS__    3/3/A/1_/12_      MLRS/LANCE
1563. _ ____ BTY_B 1-12__ 17FA___ IIICORPS__    _/_/B/1_/12_      MLRS/LANCE
1564. _ 1PLT BTY_B 1-12__ 17FA___ IIICORPS__    _/1/B/1_/12_      MLRS/LANCE
1565. 1 1PLT BTY_B 1-12__ 17FA___ IIICORPS__    1/1/B/1_/12_      MLRS/LANCE
1566. 2 1PLT BTY_B 1-12__ 17FA___ IIICORPS__    2/1/B/1_/12_      MLRS/LANCE
1567. 3 1PLT BTY_B 1-12__ 17FA___ IIICORPS__    3/1/B/1_/12_      MLRS/LANCE
1568. _ 2PLT BTY_B 1-12__ 17FA___ IIICORPS__    _/2/B/1_/12_      MLRS/LANCE
1569. 1 2PLT BTY_B 1-12__ 17FA___ IIICORPS__    1/2/B/1_/12_      MLRS/LANCE
1570. 2 2PLT BTY_B 1-12__ 17FA___ IIICORPS__    2/2/B/1_/12_      MLRS/LANCE
1571. 3 2PLT BTY_B 1-12__ 17FA___ IIICORPS__    3/2/B/1_/12_      MLRS/LANCE
1572. _ 3PLT BTY_B 1-12__ 17FA___ IIICORPS__    _/3/B/1_/12_      MLRS/LANCE
1573. 1 3PLT BTY_B 1-12__ 17FA___ IIICORPS__    1/3/B/1_/12_      MLRS/LANCE
1574. 2 3PLT BTY_B 1-12__ 17FA___ IIICORPS__    2/3/B/1_/12_      MLRS/LANCE
1575. 3 3PLT BTY_B 1-12__ 17FA___ IIICORPS__    3/3/B/1_/12_      MLRS/LANCE
1576. _ ____ BTY_C 1-12__ 17FA___ IIICORPS__    _/_/C/1_/12_      MLRS/LANCE
1577. _ 1PLT BTY_C 1-12__ 17FA___ IIICORPS__    _/1/C/1_/12_      MLRS/LANCE
1578. 1 1PLT BTY_C 1-12__ 17FA___ IIICORPS__    1/1/C/1_/12_      MLRS/LANCE
1579. 2 1PLT BTY_C 1-12__ 17FA___ IIICORPS__    2/1/C/1_/12_      MLRS/LANCE
1580. 3 1PLT BTY_C 1-12__ 17FA___ IIICORPS__    3/1/C/1_/12_      MLRS/LANCE
1581. _ 2PLT BTY_C 1-12__ 17FA___ IIICORPS__    _/2/C/1_/12_      MLRS/LANCE
1582. 1 2PLT BTY_C 1-12__ 17FA___ IIICORPS__    1/2/C/1_/12_      MLRS/LANCE
1583. 2 2PLT BTY_C 1-12__ 17FA___ IIICORPS__    2/2/C/1_/12_      MLRS/LANCE
1584. 3 2PLT BTY_C 1-12__ 17FA___ IIICORPS__    3/2/C/1_/12_      MLRS/LANCE
1585. _ 3PLT BTY_C 1-12__ 17FA___ IIICORPS__    _/3/C/1_/12_      MLRS/LANCE
1586. 1 3PLT BTY_C 1-12__ 17FA___ IIICORPS__    1/3/C/1_/12_      MLRS/LANCE
1587. 2 3PLT BTY_C 1-12__ 17FA___ IIICORPS__    2/3/C/1_/12_      MLRS/LANCE
1588. 3 3PLT BTY_C 1-12__ 17FA___ IIICORPS__    3/3/C/1_/12_      MLRS/LANCE
1589. _ OPS_ _____ 2-4___ 214FA__ IIICORPS__    O/P/S/2_/4__      MLRS/LANCE
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1590.	_	FDC_	_____	2-4___	214FA__	IIICORPS__	F/D/C/2_/4__	MLRS/LANCE
1591.	_	____	BTY_A	2-4___	214FA__	IIICORPS__	_/_/A/2_/4__	MLRS/LANCE
1592.	_	1PLT	BTY_A	2-4___	214FA__	IIICORPS__	_/1/A/2_/4__	MLRS/LANCE
1593.	1	1PLT	BTY_A	2-4___	214FA__	IIICORPS__	1/1/A/2_/4__	MLRS/LANCE
1594.	2	1PLT	BTY_A	2-4___	214FA__	IIICORPS__	2/1/A/2_/4__	MLRS/LANCE
1595.	3	1PLT	BTY_A	2-4___	214FA__	IIICORPS__	3/1/A/2_/4__	MLRS/LANCE
1596.	_	2PLT	BTY_A	2-4___	214FA__	IIICORPS__	_/2/A/2_/4__	MLRS/LANCE
1597.	1	2PLT	BTY_A	2-4___	214FA__	IIICORPS__	1/2/A/2_/4__	MLRS/LANCE
1598.	2	2PLT	BTY_A	2-4___	214FA__	IIICORPS__	2/2/A/2_/4__	MLRS/LANCE
1599.	3	2PLT	BTY_A	2-4___	214FA__	IIICORPS__	3/2/A/2_/4__	MLRS/LANCE
1600.	_	3PLT	BTY_A	2-4___	214FA__	IIICORPS__	_/3/A/2_/4__	MLRS/LANCE
1601.	1	3PLT	BTY_A	2-4___	214FA__	IIICORPS__	1/3/A/2_/4__	MLRS/LANCE
1602.	2	3PLT	BTY_A	2-4___	214FA__	IIICORPS__	2/3/A/2_/4__	MLRS/LANCE
1603.	3	3PLT	BTY_A	2-4___	214FA__	IIICORPS__	3/3/A/2_/4__	MLRS/LANCE
1604.	_	____	BTY_B	2-4___	214FA__	IIICORPS__	_/_/B/2_/4__	MLRS/LANCE
1605.	_	1PLT	BTY_B	2-4___	214FA__	IIICORPS__	_/1/B/2_/4__	MLRS/LANCE
1606.	1	1PLT	BTY_B	2-4___	214FA__	IIICORPS__	1/1/B/2_/4__	MLRS/LANCE
1607.	2	1PLT	BTY_B	2-4___	214FA__	IIICORPS__	2/1/B/2_/4__	MLRS/LANCE
1608.	3	1PLT	BTY_B	2-4___	214FA__	IIICORPS__	3/1/B/2_/4__	MLRS/LANCE
1609.	_	2PLT	BTY_B	2-4___	214FA__	IIICORPS__	_/2/B/2_/4__	MLRS/LANCE
1610.	1	2PLT	BTY_B	2-4___	214FA__	IIICORPS__	1/2/B/2_/4__	MLRS/LANCE
1611.	2	2PLT	BTY_B	2-4___	214FA__	IIICORPS__	2/2/B/2_/4__	MLRS/LANCE
1612.	3	2PLT	BTY_B	2-4___	214FA__	IIICORPS__	3/2/B/2_/4__	MLRS/LANCE
1613.	_	3PLT	BTY_B	2-4___	214FA__	IIICORPS__	_/3/B/2_/4__	MLRS/LANCE
1614.	1	3PLT	BTY_B	2-4___	214FA__	IIICORPS__	1/3/B/2_/4__	MLRS/LANCE
1615.	2	3PLT	BTY_B	2-4___	214FA__	IIICORPS__	2/3/B/2_/4__	MLRS/LANCE
1616.	3	3PLT	BTY_B	2-4___	214FA__	IIICORPS__	3/3/B/2_/4__	MLRS/LANCE
1617.	_	____	BTY_C	2-4___	214FA__	IIICORPS__	_/_/C/2_/4__	MLRS/LANCE
1618.	_	1PLT	BTY_C	2-4___	214FA__	IIICORPS__	_/1/C/2_/4__	MLRS/LANCE
1619.	1	1PLT	BTY_C	2-4___	214FA__	IIICORPS__	1/1/C/2_/4__	MLRS/LANCE
1620.	2	1PLT	BTY_C	2-4___	214FA__	IIICORPS__	2/1/C/2_/4__	MLRS/LANCE
1621.	3	1PLT	BTY_C	2-4___	214FA__	IIICORPS__	3/1/C/2_/4__	MLRS/LANCE
1622.	_	2PLT	BTY_C	2-4___	214FA__	IIICORPS__	_/2/C/2_/4__	MLRS/LANCE
1623.	1	2PLT	BTY_C	2-4___	214FA__	IIICORPS__	1/2/C/2_/4__	MLRS/LANCE
1624.	2	2PLT	BTY_C	2-4___	214FA__	IIICORPS__	2/2/C/2_/4__	MLRS/LANCE
1625.	3	2PLT	BTY_C	2-4___	214FA__	IIICORPS__	3/2/C/2_/4__	MLRS/LANCE
1626.	_	3PLT	BTY_C	2-4___	214FA__	IIICORPS__	_/3/C/2_/4__	MLRS/LANCE
1627.	1	3PLT	BTY_C	2-4___	214FA__	IIICORPS__	1/3/C/2_/4__	MLRS/LANCE
1628.	2	3PLT	BTY_C	2-4___	214FA__	IIICORPS__	2/3/C/2_/4__	MLRS/LANCE
1629.	3	3PLT	BTY_C	2-4___	214FA__	IIICORPS__	3/3/C/2_/4__	MLRS/LANCE
1630.	_	OPS_	_____	6-32__	214FA__	IIICORPS__	O/P/S/6_/32_	MLRS/LANCE
1631.	_	FDC_	_____	6-32__	214FA__	IIICORPS__	F/D/C/6_/32_	MLRS/LANCE
1632.	_	____	BTY_A	6-32__	214FA__	IIICORPS__	_/_/A/6_/32_	MLRS/LANCE
1633.	_	1PLT	BTY_A	6-32__	214FA__	IIICORPS__	_/1/A/6_/32_	MLRS/LANCE
1634.	1	1PLT	BTY_A	6-32__	214FA__	IIICORPS__	1/1/A/6_/32_	MLRS/LANCE
1635.	2	1PLT	BTY_A	6-32__	214FA__	IIICORPS__	2/1/A/6_/32_	MLRS/LANCE
1636.	3	1PLT	BTY_A	6-32__	214FA__	IIICORPS__	3/1/A/6_/32_	MLRS/LANCE
1637.	_	2PLT	BTY_A	6-32__	214FA__	IIICORPS__	_/2/A/6_/32_	MLRS/LANCE
1638.	1	2PLT	BTY_A	6-32__	214FA__	IIICORPS__	1/2/A/6_/32_	MLRS/LANCE
1639.	2	2PLT	BTY_A	6-32__	214FA__	IIICORPS__	2/2/A/6_/32_	MLRS/LANCE
1640.	3	2PLT	BTY_A	6-32__	214FA__	IIICORPS__	3/2/A/6_/32_	MLRS/LANCE
1641.	_	3PLT	BTY_A	6-32__	214FA__	IIICORPS__	_/3/A/6_/32_	MLRS/LANCE
1642.	1	3PLT	BTY_A	6-32__	214FA__	IIICORPS__	1/3/A/6_/32_	MLRS/LANCE
1643.	2	3PLT	BTY_A	6-32__	214FA__	IIICORPS__	2/3/A/6_/32_	MLRS/LANCE
1644.	3	3PLT	BTY_A	6-32__	214FA__	IIICORPS__	3/3/A/6_/32_	MLRS/LANCE
1645.	_	____	BTY_B	6-32__	214FA__	IIICORPS__	_/_/B/6_/32_	MLRS/LANCE
1646.	_	1PLT	BTY_B	6-32__	214FA__	IIICORPS__	_/1/B/6_/32_	MLRS/LANCE

1647. 1 1PLT BTY_B 6-32__ 214FA__ IIICORPS__ 1/1/B/6_/32_ MLRS/LANCE
1648. 2 1PLT BTY_B 6-32__ 214FA__ IIICORPS__ 2/1/B/6_/32_ MLRS/LANCE
1649. 3 1PLT BTY_B 6-32__ 214FA__ IIICORPS__ 3/1/B/6_/32_ MLRS/LANCE
1650. _ 2PLT BTY_B 6-32__ 214FA__ IIICORPS__ _/2/B/6_/32_ MLRS/LANCE
1651. 1 2PLT BTY_B 6-32__ 214FA__ IIICORPS__ 1/2/B/6_/32_ MLRS/LANCE
1652. 2 2PLT BTY_B 6-32__ 214FA__ IIICORPS__ 2/2/B/6_/32_ MLRS/LANCE
1653. 3 2PLT BTY_B 6-32__ 214FA__ IIICORPS__ 3/2/B/6_/32_ MLRS/LANCE
1654. _ 3PLT BTY_B 6-32__ 214FA__ IIICORPS__ _/3/B/6_/32_ MLRS/LANCE
1655. 1 3PLT BTY_B 6-32__ 214FA__ IIICORPS__ 1/3/B/6_/32_ MLRS/LANCE
1656. 2 3PLT BTY_B 6-32__ 214FA__ IIICORPS__ 2/3/B/6_/32_ MLRS/LANCE
1657. 3 3PLT BTY_B 6-32__ 214FA__ IIICORPS__ 3/3/B/6_/32_ MLRS/LANCE
1658. _ ____ BTY_C 6-32__ 214FA__ IIICORPS__ _/_/C/6_/32_ MLRS/LANCE
1659. _ 1PLT BTY_C 6-32__ 214FA__ IIICORPS__ _/1/C/6_/32_ MLRS/LANCE
1660. 1 1PLT BTY_C 6-32__ 214FA__ IIICORPS__ 1/1/C/6_/32_ MLRS/LANCE
1661. 2 1PLT BTY_C 6-32__ 214FA__ IIICORPS__ 2/1/C/6_/32_ MLRS/LANCE
1662. 3 1PLT BTY_C 6-32__ 214FA__ IIICORPS__ 3/1/C/6_/32_ MLRS/LANCE
1663. _ 2PLT BTY_C 6-32__ 214FA__ IIICORPS__ _/2/C/6_/32_ MLRS/LANCE
1664. 1 2PLT BTY_C 6-32__ 214FA__ IIICORPS__ 1/2/C/6_/32_ MLRS/LANCE
1665. 2 2PLT BTY_C 6-32__ 214FA__ IIICORPS__ 2/2/C/6_/32_ MLRS/LANCE
1666. 3 2PLT BTY_C 6-32__ 214FA__ IIICORPS__ 3/2/C/6_/32_ MLRS/LANCE
1667. _ 3PLT BTY_C 6-32__ 214FA__ IIICORPS__ _/3/C/6_/32_ MLRS/LANCE
1668. 1 3PLT BTY_C 6-32__ 214FA__ IIICORPS__ 1/3/C/6_/32_ MLRS/LANCE
1669. 2 3PLT BTY_C 6-32__ 214FA__ IIICORPS__ 2/3/C/6_/32_ MLRS/LANCE
1670. 3 3PLT BTY_C 6-32__ 214FA__ IIICORPS__ 3/3/C/6_/32_ MLRS/LANCE
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APPENDIX C

EXAMPLE MCFSS TAB

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201730Z Jan 1998
AAD-1

TAB J (Marine Corps Fire Support System Plan) to Appendix 12 (Fire Support) to Annex C (Operations) to Operation Order 2-98 (Operation SEA LION)

Ref: (a) Map: Abyar As Saluqi, Libya 4088IV
(b) MCWP 3-1.6.7 Draft
(c) Example UNIT SOP

Time Zone: B (Commencing 2 Feb 1998)

1. SITUATION. Refer to paragraph 1 of this order.

1. ORGANIZATION FOR COMBAT

FIRE SUPPORT	MISSION	SUPPORTING
_/_/_/11/MR_ (11M)	DS	F/S/C/1_/MD_
_/_/A/6_/27_ (627)	GS	F/S/C/1_/MD_
_/_/_/1_/11_ (111)	DS	F/S/C/1_/MR_
_/_/_/2_/11_ (211)	DS	F/S/C/5_/MR_
_/_/_/3_/11_ (311)	DS	F/S/C/7_/MR_
	O/O GS	F/S/C/1_/MD_
_/_/_/5_/11_ (511)	R	_/_/_/3_/11_
	O/O GS	F/S/C/1_/MD_
F/D/C/1_/37_ (137)	GS	F/S/C/1_/MD_

1. OBSERVER AND RADAR ASSIGNMENTS

UNIT	ASSIGNED OBSERVER/RADAR	FLOT POINTS
F/S/C/1_/1__ (1A1)	F/O/A/11/___	01-02
	F/O/B/12/___	03-04
	F/O/C/13/___	05-06
F/S/C/2_/1__ (2A4)	F/O/E/14/___	07-08
	F/O/F/15/___	09-10
	F/O/G/16/___	11-12
F/S/C/3_/1__ (3A4)	F/O/E/14/___	13-14
	F/O/F/15/___	15-16
	F/O/G/16/___	17-18
_/_/_/11/MR_ (11M)	C/M/R/01/___	
	C/M/R/02/___	
	C/M/R/03/___	
	C/M/R/04/___	
	U/A/V/09/___	

1. MAP MOD
A. Center coordinates:776000 03537000
B. Grid zone:+34
C. Datum:WGS 84

2. TARGET NUMBER ASSIGNMENTS

STATION	TARGET BLOCK	ASR NUMBER BLOCK
F/F/C/1_/MF_ (IMF)	AL1000-1499	ALA0000-ALA0999
F/S/C/1_/MD_ (1MD)	AL3000-3499	ALB0000-ALB0999
T/A/C/3_/AW_ (TAC3AW)	AL4000-4499	ALC0000-ALC0999
D/A/S/3_/AW_ (DAS3AW)	AL4500-4999	ALD0000-ALD0999
F/S/C/1_/MR_ (1MR)	AA0000-0499	AAA0000-AAA0499
F/S/C/1_/1__ (1A1)	AA1000-1499	AAB0000-AAB0199
F/S/C/2_/1__ (2A1)	AA2000-2499	AAC0000-AAC0199
F/S/C/3_/1__ (3A1)	AA3000-3499	AAD0000-AAD0199
F/S/C/5_/MR_ (5MR)	AE0000-0499	AEA0000-AEA0499
F/S/C/1_/5__ (1A5)	AE1000-1499	AEB0000-AEB0199
F/S/C/2_/5__ (2A5)	AE2000-2499	AEC0000-AEC0199
F/S/C/3_/5__ (3A5)	AE3000-3499	AED0000-AED0199
F/S/C/7_/MR_ (7MR)	AG0000-0499	AGA0000-AGA0499
F/S/C/1_/7__ (1A7)	AG1000-1499	AGB0000-AGB0199
F/S/C/2_/7__ (2A7)	AG2000-2499	AGC0000-AGC0199
F/S/C/3_/7__ (3A7)	AG3000-3499	AGD0000-AGD0199
F/D/C/11/MR_ (11M)	AL6000-6499	
_/_/_/11/TPC (11T)	AL6700-6999	
_/_/A/6_/27_ (627)	AL6500-6699	
F/D/C/1_/37_ (137)	AL6700-6999	
_/_/_/1_/11_ (111)	AG4000-4999	
_/_/A/1_/11_ (A11)	AG5000-5199	
_/_/B/1_/11_ (B11)	AG5200-5399	
_/_/C/1_/11_ (C11)	AG5400-5599	
_/_/_/2_/11_ (211)	AC4000-4999	
_/_/E/2_/11_ (E11)	AC5000-5199	
_/_/F/2_/11_ (F11)	AC5200-5399	
_/_/G/2_/11_ (G11)	AC5400-5599	
_/_/_/3_/11_ (311)	AA4000-4999	
_/_/I/3_/11_ (I11)	AA5000-5199	
_/_/K/3_/11_ (K11)	AA5200-5399	
_/_/L/3_/11_ (L11)	AA5400-5599	
_/_/_/5_/11_ (511)	AL8000-8999	
_/_/R/5_/11_ (R11)	AL9000-9199	
_/_/S/5_/11_ (S11)	AL9200-9399	
_/_/Q/5_/11_ (Q11)	AL9400-9599	

COMMANDER'S CRITERIA

A. TARGET SELECTION STANDARDS AND DECAY TIMES:

TARGET	MAX TLE (m)	MAX REP AGE (min)	DECAY TIME
CP, REGIMENT	300	60	4 HOURS
CP, BATTALION	300	45	"
CP, DIVISION	300	240	"
CP, SMALL	250	30	"
ARTY, TOWED	200	45	1 HOUR
ARTY, UNKNOWN	200	45	"
MSL, MEDIUM	400	60	30 MIN
APC	200	30	30 MIN
ARMORED, VEHICLE	200	30	30 MIN
AA, TROOPS	400	60	30 MIN
AA, TRPS AND ARMOR	400	45	30 MIN

AA, TROOPS AND VEHICLE	400	45	30 MIN
ADA, MSL	100	90	30 MIN
BUNKER	100	300	30 MIN
PATROL	100	30	10 MIN

Note: ***Fire Requests will not be checked against TSS.***

B. HVT LIST:

TARGET CATEGORY	RELATIVE VALUE									
C3	■	■	■	■	■	■	■	■	■	
FIRE SUPPORT	■	■	■	■	■	■	■	■		
MANEUVER	■	■	■	■	■	■	■			
ADA	■	■	■							
ENGINEER	■									
RSTA	■									
REC	■	■	■							
NUC/CHEM	■	■								
POL	■	■	■	■	■					
AMMUNITION	■	■	■							
MAINTENANCE	■	■	■	■	■	■	■			
LIFT	■	■	■							
LOC	■									

C. ATTACK GUIDANCE:

ATTACK GUIDANCE MATRIX		
TARGET	**EFFECTS**	**WHEN**
C3	Destroy	A
FIRE SUPPORT	15%	A
MANUEUVER	Neutralize	I
ADA	Suppress	P
ENGINEER	Suppress	A
RSTA	10%	A
REC	Neutralize	A
NUC/CHEM	Destroy	I
POL	15%	P
AMMUNITION	20%	P
MAINTENANCE	Neutralize	A
LIFT	Suppress	P
LOC	Suppress	P

D. HPT LIST:

HPT MATRIX											
TARGET	**EFFECTS**	WHEN	RELATIVE VALUE								
CP, REGIMENT	Destroy	I									
ARTY, TOWED	Neutralized	A									
TANK, MED	Neutralize	A									
AA, TRPS & ARMOR	Suppress	P									

E. TARGET AND FIRE SUPPORT SYSTEM EXCLUSIONS:

Railroad targets will not be attacked due to the need to maintain the infrastructure of the country.

F. MISSION PRIORITIZATION:

TARGET TYPE:	Weight 30	PRIORITY OF FIRES:	Weight 50
ON-CALL TGTS:	Weight 5	TAI:	Weight 15

G. MISSION CUTOFF VALUES:

FA:	20	AIR:	30
MORTAR:	10	NGF:	10

H. PRIORITY OF FIRE TO:

UNIT	RANK
1/1	(1)
1 MAR	(3)
3/1	(2)
1/25	(4)
2/1	(4)

I. TARGET AREA OF INTEREST RANK:

TA11MD 1

J. SYSTEM PREFERENCE TABLE DATA FOR THE CLOSE BATTLE:

TARGET CATEGORY/TYPE	**PREFERENCE**
C3/CP Regiment	AIR, FA, NSFS, MORTAR
FS/ARTY, towed	AIR, FA, NSFS, MORTAR
MAN/AA TRPS & Armor	FA, AIR, NSFS, MORTAR

K. SYSTEM PREFERENCE TABLE DATA FOR THE REAR BATTLE:

TARGET CATEGORY/TYPE	**PREFERENCE**
FS/Mortar, light	MORTAR, FA, NSFS, AIR is restricted
MAN/Patrol	MORTAR, FA, NSFS, AIR is restricted

L. FS SYTEM UNIT PREFERENCES:

FA: FDC 3BN 11MAR 1MARDIV NGF:FFCC IMEF
AIR: FFCC IMEF

M. Immediate missions will be routed to the FDC 3BN 11MAR 1MARDIV.

N. AIR ATTACK METHODS:

TARGET CATEGORY/TYPE	**PREFERENCE**
C3/CP Regiment	6 GP bombs, 4 Napalm

O. NSFS ATTACK METHODS:

TARGET CATEGORY/TYPE	**PREFERENCE**
FS/Missle, Med	20 rds, 5"54 HE, 20 rds WP

P. FA RESTRICTIONS: Maximum volleys for FA is 3, (This has to entered at each OPFAC under the FUs as the units with restrictions, using DETAILED attack analysis) and maximum fire units per target for Div. FSCC/Regt. FDC is 7. Maximum fire units per target for Regt. FSCC/BN. FDC is 3. Concrete piercing fuzes are restricted from use. (This data is entered for each FSCC UNIT ID that the unit is supported by).

Q. FA ATTACK METHODS:

TARGET CATEGORY/TYPE	**PREFERENCE**
FS/Arty, Towed	Battery 2 volleys DPICM, 4 volleys HE/VT
MAN/AA, Troops & Armor	Bn, 1 volley DPICM, 3 volleys HE/PD

R. FA IMMEDIATE ATTACK METHODS:

Immediate Suppression: SECTION, 1 volley, DPICM
Immediate Smoke: SECTION, 1 volley WP/PD, 1 volley WP2/TI

S. TARGET DUPLICATION:

TARGET SEPARATION DISTANCE:	ANY TARGETS:	100 meters
	SIMILAR TARGETS:	400 meters

T. FIRE SUPPORT SYSTEM BUFFERS:

FA:	600 meters	NSFS:	750 meters
Mortar:	400 meters	AIR:	1000 meters

1. FIRE PLANNING:

As per reference (b).

1. ARTILLERY TARGET INTELLIGENCE (ATI):

A. SUSPECT TARGET MAXIMUM OVERLAY: 30%

B. ATI REPORTING. The following will be reported in ATI message formats:

(1) All enemy activity that is judged by the observer as likely to remain in place for at least two hours.

1. BATTLEFIELD GEOMETRY. Current support data. Initial support data is provided in enclosure 1 of this TAB.

2. AMMUNITION AND FIRING UNITS

A. CONTROLLED SUPPLY RATE FOR 155MM:

AMMUNITION	D-DAY	S-DAY
HE	80	100
RAP	60	100
DPICM	120	160
Copperhead	0	8

B. CRITICAL AMMUNITION LEVELS FOR 155MM

AMMUNITION	DEGRADED	CRITICAL	NO-GO
HE	60%	40%	10%
RAP	50%	30%	10%
DPICM	65%	40%	15%
Copperhead	50%	25%	20%

1. MET DISTRIBUTION:

MET SECTION	SUPPORTED UNIT
FDC 11 MAR	MET 04
1/11	MET 01
2/11	MET 02
3/11	MET 04

1. COMMUNICATIONS:

A. Communications will be conducted in accordance with reference (c).

B. Subscriber table and digital nets guard chart are provided in enclosure 2 of this TAB.

1. REPORTS: Battery BCS submit an AFU;UPDATE with OUTTIL immediately prior to displacement and a corrected AFU;UPDATE with READY when in place and guns are up. All BCS will report ammo to their controlling AFATDS.

ENCLOSURES:

1 - INITIAL GEOMETRY
2 - DIGITAL GUARD CHART
3 - SUBSCRIBER TABLE

ACKNOWLEDGE RECEIPT

J. A. LEJEUNE
General, U. S. Marine Corps
Commanding

OFFICIAL:

S. D. BUTLER
Col USMC
G-3

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ENCLOSURE 1 (Initial geometry) to TAB J (Marine Corps Fire Support System Plan) to Appendix 12 (Fire Support) to Annex C (Operations) to Operations Order 2-98 (Operation SEA LION)

Note: All geometry is effective at the start of operations unless otherwise indicated by an on-call time.

1. **ZONES**.

A. ZO11MF

PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ
1	423 626/5	34	2	427 573/50	34	3	435 455/190	34
4	431 360/165	34	5	436 278/287	34	6	451 245/170	34
7	482 220/170	34	8	560 165/185	34	9	642 148/190	34
10	719 150/195	34	11	780 168/200	34	12	360 170/210	35
13	370 440/195	35	14	380 720/180	35	15	410 740/0	34

B. ZO11MD

PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ
1	423 626/5	34	2	427 573/50	34	3	435 455/190	34
4	431 360/165	34	5	436 278/287	34	6	451 245/170	34
7	482 220/170	34	8	510 201/175	34	9	702 319/190	34
10	773 331/180	34	11	780 420/140	34	12	777 500/110	34
13	765 528/80	34	14	773 567/5	34	15	597 625/5	34
16	514 636/5	34						

C. ZO12MD

PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ
1	773 567/5	34	2	765 528/80	34	3	777 500/110	34
4	780 420/140	34	5	773 331/180	34	6	366 391/195	35
7	377 587/65	35	8	236 588/5	35			

D. ZO11MR

PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ
1	558 550/110	34	2	555 489/170	34	3	556 427/180	34
4	557 377/165	34	5	561 345/110	34	6	599 285/140	34
7	718 358/160	34	8	712 482/155	34	9	710 525/50	34
10	665 530/85	34	11	656 528/90	34	12	617 548/70	34
13	609 549/90	34	14	598 547/90				

E. ZO11A1

PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ

1	558 550/110	34	2	555 489/170	34	3	556 427/180	34
4	557 377/165	34	5	617 382/170	34	6	617 548/70	34
7	609 549/90	34	8	598 547/90				

F. ZO12A1

PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ
1	617 548/70	34	2	617 382/170	34	3	666 368/175	34
4	665 530/85	34	5	656 528/90	34			

G. ZO13A1

PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ
1	665 530/85	34	2	666 368/175	34	3	718 358/160	34
4	712 482/155	34	5	710 525/50	34			

H. ZO17MR

PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ
1	427 573/50	34	2	435 455/190	34	3	431 360/165	34
4	436 278/155	34	5	599 285/140	34	6	561 345/110	34
7	557 377/165	34	8	556 427/180	34	9	555 489/170	34
10	558 550/110	34	11	480 565/70	34	12	437 568/60	34

I. ZO11A7

PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ
1	558 550/110	34	2	555 489/170	34	3	556 427/180	34
4	557 377/165	34	5	561 345/110	34	6	599 285/140	34
7	546 273/140	34	8	517 342/140	34	9	516 558/140	34

J. ZO12A7

PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ
1	51600 55808	34	2	517 342/140	34	3	54600 38273	34
4	50500 28096	34	5	489 341/165	34	6	480 565/70	34

K. ZO13A7

PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ
1	480 565/70	34	2	489 341/130	34	3	50500 28096	34
4	436 278/155	34	5	431 360/165	34	6	435 455/190	34
7	427 573/50	34	8	437 568/60	34			

L. ZO15MR

PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ
1	710 525/50	34	2	712 482/155	34	3	718 358/160	34
4	773 331/140	34	5	780 421/140	34	6	777 500/110	34
7	765 528/80	34						

1. **FLOTs**.

A. FL11MR

PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ
1	707 487/150	34	2	666 497/160	34	3	632 511/155	34
4	598 519/120	34	5	555 518/100	34			

B. FL17MR

PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ
1	554 524/110	34	2	501 518/150	34	3	432 519/160	34

C. FL15MR

PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ
1	778 477/140	34	2	713 495/135	34

1. **CFLs**.

A. CL17MR

PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ
1	556 503/110	34	2	433 494/190	34

B. CL11MR

PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ
1	712 432/155	34	2	609 498/180	34	3	555 489/170	34

C. CL15MR

PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ
1	780 420/140	34	2	715 431/150	34			

1. **FSCLs**.

A. FS11MD

PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ
1	365 386	35	2	773 331/140	34	3	702 319/90	34
4	510 201	34						

1. **RFLs**.

A. RL11MR

PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ
1	620 405/170	34	2	599 418/175	34	3	586 436/180	34

1. **RFAs**.

A. RF31MF (ONCALL, Effective from H+10 to H+480) Restriction: No AIR or FA delivered FASCAM.

PT#	GRID/ALT	GZ	RADIUS
1	516 416/80	34	1300

1. **NFAs**.

A. NF11MF

GRID/ALT	GZ	RADIUS
715 535/90	34	1200m

1. **OBJECTIVES**.

A. OB31MF

GRID/ALT	GZ	RADIUS
750 290/160	34	2500m

B. OBA1MR

GRID/ALT	GZ	RADIUS
616 435/190	34	800m

C. OBB1MR

GRID/ALT	GZ	RADIUS
620 330/150	34	1000m

1. **FFAs**.

A. FF11MF (ONCALL from H+10 to H+480)

PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ	WIDTH
1	709 206/180	34	2	680 225/225	34	2000

1. **PHASE LINES**.

A. PL11MR

PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ
1	709 481/130	34	2	556 482/150	34

B. PL21MR

PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ
1	712 446/170	34	2	556 455/180	34

1. **BATTLE AREAS.**

A. CLOSE

PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ
1	427 573	34	2	435 455	34	3	433 400	34
4	560 380	34	5	650 360	34	6	775 360	34
7	780 420	34	8	777 500	34	9	765 528	34
10	710 525	34	11	665 530	34	12	656 528	34
13	617 548	34	14	609 549	34	15	598 547	34
16	558 550	34	17	480 565	34	18	437 568	34

B. REAR

PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ
1	423 626	34	2	427 573	34	3	437 568	34
4	480 565	34	5	558 550	34	6	598 547	34
7	609 549	34	8	617 548	34	9	656 528	34
10	665 530	34	11	710 525	34	12	765 528	34
13	773 567	34	14	597 625	34	15	514 636	34

C. DEEP

PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ	PT#	GRID/ALT	GZ
1	433 400	34	2	431 360	34	3	436 278	34
4	451 245	34	5	482 220	34	6	560 165	34
7	642 148	34	8	719 150	34	9	780 168	34
10	780 241	34	11	773 331	34	12	775 360	34
13	650 360	34	14	560 380	34			

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ENCLOSURE 2 (Communications Guard Chart) to TAB J (Marine Corps Fire Support System Plan) to Appendix 12 (Fire Support) to Annex C (Operations) to Operations Order 2-96 (Operation SEA LION)

Digital Guard Chart C=Net Ctrl X=Guard A=As Req W=When Dir R=Relay	1MF MFFC	1MD DFSC	1MR RFSC	5MR RFSC	7MR RFSC	11M RFD2	TPC WIRE	TPC RDRMET	111 COFA	111 COFB	211 COFA	211 COFB	311 COFA	311 COFB	511 COFA	511 COFB
PROTOCOL L=LAN, T=TACFIRE V=VMF	V	V	V	V	V	V	L	T	T	T	T	T	T	T	T	T
KEYTIME	0.7	0.7	0.7	0.7	0.7	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
FSK 1=12/24 2=13/21								1	1	1	1	1	1	1	1	1
BLK MODE								1	1	1	1	1	1	1	1	1
Data Rate (bps)	32k	16k	16k	16k	16k	16k		1.2K	1.2K	1.2K	1.2K	1.2K	1.2K	1.2K	1.2K	1.2K
CARRIER DROP OUT TIME	0.5	0.5	0.5	0.5	0.5	0.5										
COMSEC	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y
1MF FFCC	C															
1MD FSCC	X	C														
3AW DASC		X														
1MR FSCC		X	C													
1A1 FSC+FOs			X										X			
2A1 FSC+FOS			X										X			
3A1 FSC+FOs			X											X		
5MR FSCC		X		C												
1A5 FSC+FOs				X					X							
2A5 FSC+FOs				X					X							
3A5 FSC+FOs				X						X						
7MR FSCC		X			C											
1A7 FSC+FOs					X						X					
2A7 FSC+FOs					X						X					
3A7 FSC+FOs					X							X				
11M FDC		X				C	X									
11M TPC							C	C								

Digital Guard Chart C=Net Ctrl X=Guard A=As Req W=When Dir R=Relay	1MFMFFC	1MDDFSC	1MRRFSC	5MRRFSC	7MRRFSC	11MRFD2	TPCWIRE	TPCRDRMET	111COFA	111COFB	211COFA	211COFB	311COFA	311COFB	511COFA	511COFB
11M MET								X								
11M RADAR								X								
UAV																
111 FDC				X		X			C	C						
A11 FDC									X							
B11 FDC									X							
C11 FDC										X						
211 FDC					X	X					C	C				
E11 FDC											X					
F11 FDC											X					
G11 FDC												X				
311 FDC			X		X	X							C	C		
I11 FDC													X			
K11 FDC													X			
L11 FDC														X		
511 FDC						X								C	C	
Q11 FDC														X		
R11 FDC														X		
S11 FDC															X	
A27 FDC						X										

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ENCLOSURE 3 (Subscriber Table) to TAB J (Marine Corps Fire Support System Plan) to Appendix 12 (Fire Support) to Annex C (Operations) to Operations Order 2-96 (Operation SEA LION)

LINE #	OWN NAME	NET	PROTOCOL	NET ACCESS	ADD	MOI ADD	RANK
1	FFCC MAIN 1MEF	MFFC	VMF	ADAPTIVE	02		1/4

LINE #	STATION NAME	DEVICE	ADD	MOI ADD	AGENCY	FO#	ROUTE
1	FFCC FWD 1MEF		10				PD via MFFC net
2	FSCC MAIN 1MARDIV		03				PD via MFFC net
3	FSCC FWD 1MARDIV		04				PD via MFFC net

LINE #	OWN NAME	NET	PROTOCOL	NET ACCESS	ADD	MOI ADD	RANK
1	DASC MAIN 3MARWNG	DFSC	VMF	ADAPTIVE	14		2/11

LINE #	STATION NAME	DEVICE	ADD	MOI ADD	AGENCY	FO#	ROUTE
1	DASC FWD 3MARWNG		15				PD via DFFC net
2	FSCC MAIN 1MARDIV		12				PD via DFFC net
3	FSCC FWD 1MARDIV		13				PD via DFFC net

LINE #	OWN NAME	NET	PROTOCOL	NET ACCESS	ADD	MOI ADD	RANK
1	FSCC MAIN 1MARDIV	MFFC	VMF	ADAPTIVE	03		2/4
2		DFSC	VMF	ADAPTIVE	12		1/11

LINE #	STATION NAME	DEVICE	ADD	MOI ADD	AGENCY	FO#	ROUTE
1	FFCC MAIN 1MEF		02				PD via MFFC net
2	FFCC FWD 1MEF		10				PD via MFFC net
3	FSCC FWD 1MARDIV		04				PD via MFFC net
4	DASC MAIN 3MARWNG		14				PD via DFSC net
5	DASC FWD 3MARWNG		15				PD via DFSC net
6	FSCC MAIN 1MAR		16				PD via DFSC net
7	FSCC FWD 1MAR		17				PD via DFSC net
8	FSCC MAIN 5MAR		18				PD via DFSC net
9	FSCC FWD 5MAR		19				PD via DFSC net
10	FSCC MAIN 7MAR		20				PD via DFSC net
11	FSCC FWD 7MAR		21				PD via DFSC net
12	FDC MAIN 11MAR		22				PD via DFSC net
13	FDC FWD 11MAR		23				PD via DFSC net
14	TPC MAIN 11MAR						PI via FDC MAIN 11MAR
15	TPC FWD 11MAR						PI via FDC FWD 11MAR

LINE #	OWN NAME	NET	PROTOCOL	NET ACCESS	ADD	MOI ADD	RANK
1	FSCC MAIN 1MAR	DFSC	VMF	ADAPTIVE	16		4/11
2	FSCC MAIN 1MAR	RFSC	VMF	ADAPTIVE	02		1/10

LINE #	STATION NAME	DEVICE	ADD	MOI ADD	AGENCY	FO#	ROUTE
1	FSCC MAIN 1MARDIV		12				PD via DFSC net
2	FSCC FWD 1MARDIV		13				PD via DFSC net
3	DASC MAIN 3MARWNG		14				PD via DFSC net
4	DASC FWD 3MARWNG		15				PD via DFSC net
5	FSCC MAIN 5MAR		18				PD via DFSC net
6	FSCC FWD 5MAR		19				PD via DFSC net
7	FSCC MAIN 7MAR		20				PD via DFSC net
8	FSCC FWD 7MAR		21				PD via DFSC net
9	FDC MAIN 11 MAR		22				PD via DFSC net
10	FDC FWD 11MAR		23				PD via DFSC net
11	FSCC FWD 1MAR		03				PD via RFSC net
12	FSCC MAIN 1/1		04				PD via RFSC net
13	FSCC FWD 1/1		05				PD via RFSC net
14	FSCC MAIN 2/1		06				PD via RFSC net
15	FSCC FWD 2/1		07				PD via RFSC net
16	FSCC MAIN 3/1		08				PD via RFSC net
17	FSCC FWD 3/1		09				PD via RFSC net
18	FDC MAIN 1/11		10				PD via RFSC net
19	FDC FWD 1/11		11				PD via RFSC net

LINE #	OWN NAME	NET	PROTOCOL	NET ACCESS	ADD	MOI ADD	RANK
1	FSCC MAIN 1/1	RFSC	VMF	ADAPTIVE	04		1/10
2	F/S/C/1_/1__	COFA	TACFIRE	1/3/3/5	C	N/A	

LINE #	STATION NAME	DEVICE	ADD	MOI ADD	AGENCY	FO#	ROUTE
1	FSCC MAIN 1MAR		02				PD via RFSC net
2	FSCC FWD 1MAR		03				PD via RFSC net
3	FSCC FWD 1/1		05				PD via RFSC net
4	FSCC MAIN 2/1		06				PD via RFSC net
5	FSCC FWD 2/1		07				PD via RFSC net
6	FSCC MAIN 3/1		08				PD via RFSC net
7	FSCC FWD 3/1		09				PD via RFSC net
8	FDC MAIN 1/11		10				PD via RFSC net
9			A				SD via COF A
10	FDC FWD 1/11		11				PD via RFSC net
11			B				SD via COF A
12	FO 11 A CO_		E			11	PD via COF A
13							SI via FDC MAIN
14	FO 12 B CO___		F			12	PD via COF A
15							SI via FDC MAIN
16	FO 13 C CO __		G			13	PD via COF A
17							SI via FDC MAIN

LINE #	OWN NAME	NET	NET ACCESS	PHY ADD
1	F/O/A/11/___	COFA	4	E

LINE #	NET	LOGICAL NAME	COMPTR	PHY ADD
1	COFA	_/_/_/1_/11_	Y	A
2		F/W/D/1_/11_	Y	B
3		F/S/C/1_/1__	Y	C
4		F/W/D/1_/1__	Y	D
5		/ /A/1_/11_	Y	I
6		F/O/B/12/___	N	F
7		F/O/C/13/___	N	G

LINE #	OWN NAME	NET	NET ACCESS	PHY ADD
1	F/O/B/12/___	COFA	4	F

LINE #	NET	LOGICAL NAME	COMPTR	PHY ADD
1	COFA	_/_/_/1_/11_	Y	A
2		F/W/D/1_/11_	Y	B
3		F/S/C/1_/1__	Y	C
4		F/W/D/1_/1__	Y	D
5		/ /A/1_/11_	Y	I
6		F/O/A/11/___	N	E
7		F/O/C/13/___	N	G

LINE #	OWN NAME	NET	NET ACCESS	PHY ADD
1	F/O/C/13/___	COFA	4	G

LINE #	NET	LOGICAL NAME	COMPTR	PHY ADD	MOI ADD	SID CODE	AGENCY	MULITISUBS GROUP
1	COFA	_/_/_/1_/11_	Y	A				
2		F/W/D/1_/11_	Y	B				
3		F/S/C/1_/1__	Y	C				
4		F/W/D/1_/1__	Y	D				
5		/ /A/1_/11_	Y	I				
6		F/O/A/11/___	N	E				
7		F/O/B/12/___	N	F				

LINE #	OWN NAME	NET	PROTOCOL	NET ACCESS	ADD	MOI ADD	RANK
1	FSCC MAIN 2/1	RFSC	VMF	ADAPTIVE	06		5/10
2	F/S/C/2_/1__	COFA	TACFIRE	1/3/3/5	K	N/A	

LINE #	STATION NAME	DEVICE	ADD	MOI ADD	AGENCY	FO#	ROUTE
1	FSCC MAIN 1MAR		02				PD via RFSC net
2	FSCC FWD 1MAR		03				PD via RFSC net
3	FSCC FWD 2/1		07				PD via RFSC net
4	FSCC MAIN 1/1		04				PD via RFSC net
5	FSCC FWD 1/1		05				PD via RFSC net
6	FSCC MAIN 3/1		08				PD via RFSC net
7	FSCC FWD 3/1		09				PD via RFSC net
8	FDC MAIN 1/11		10				PD via RFSC net
9			A				SD via COF B
10	FDC FWD 1/11		11				PD via RFSC net
11			B				SD via COF B
12	FO 14 E CO_	COFA	M			14	PD via COF B
13							SI via FDC MAIN
14	FO 15 F CO___		N			15	PD via COF B
15							SI via FDC MAIN
16	FO 16 G CO __		O			16	PD via COF B
17							SI via FDC MAIN

LINE #	OWN NAME	NET	NET ACCESS	PHY ADD	MOI ADD
1	F/O/D/14/___	COFB	4	M	N/A

LINE #	NET	LOGICAL NAME	COMPTR	PHY ADD
1	COFB	_/_/_/1_/11_	Y	A
2		F/W/D/1_/11_	Y	B
3		F/S/C/2_/1__	Y	K
4		F/W/D/2_/1__	Y	L
5		_/_/B/1_/11_	Y	0
6		F/O/E/15/___	N	N
7		F/O/F/16/___	N	O

LINE #	OWN NAME	NET	NET ACCESS	PHY ADD
1	F/O/E/15/___	COFB	4	M

LINE #	NET	LOGICAL NAME	COMPTR	PHY ADD
1	COFB	_/_/_/1_/11_	Y	A
2		F/W/D/1_/11_	Y	B
3		F/S/C/2_/1__	Y	K
4		F/W/D/2_/1__	Y	L
5		_/_/B/1_/11_	Y	0
6		F/O/D/14/___	N	M
7		F/O/F/16/___	N	O

LINE #	OWN NAME	NET	NET ACCESS	PHY ADD	MOI ADD
1	F/O/F/16/___	COFB	4	O	N/A

LINE #	NET	LOGICAL NAME	COMPTR	PHY ADD
1	COFB	_/_/_/1_/11_	Y	A
2		F/W/D/1_/11_	Y	B
3		F/S/C/2_/1__	Y	K
4		F/W/D/2_/1__	Y	L
5		_/_/B/1_/11_	Y	0
6		F/O/D/14/___	N	M
7		F/O/E/15/___	N	N

LINE #	OWN NAME	NET	PROTOCOL	NET ACCESS	ADD	MOI ADD	RANK
1	FSCC MAIN 3/1	RFSC	VMF	ADAPTIVE	08		7/10
2	F/S/C/3_/1__	COFC	TACFIRE	1/3/3/5	C	N/A	

LINE #	STATION NAME	DEVICE	ADD	MOI ADD	AGENCY	FO#	ROUTE
1	FSCC MAIN 1MAR		02				PD via RFSC net
2	FSCC FWD 1MAR		03				PD via RFSC net
3	FSCC FWD 3/1		09				PD via RFSC net
4	FSCC MAIN 1/1		04				PD via RFSC net
5	FSCC FWD 1/1		05				PD via RFSC net
6	FSCC MAIN 2/1		06				PD via RFSC net
7	FSCC FWD 2/1		07				PD via RFSC net
8	FDC MAIN 1/11		10				PD via RFSC net
9			A				SD via COF C
10	FDC FWD 1/11		11				PD via RFSC net
11			B				SD via COF C
12	FO 17 H CO_		E			17	PD via COF C
13							SI via FDC MAIN
14	FO 18 I CO___		F			18	PD via COF C
15							SI via FDC MAIN
16	FO 19 K CO __		G			19	PD via COF C
17							SI via FDC MAIN

LINE #	OWN NAME	NET	NET ACCESS	PHY ADD
1	F/O/G/17/___	COFC	4	G

LINE #	NET	LOGICAL NAME	COMPTR	PHY ADD
1	COFC	_/_/_/1_/11_	Y	A
2		F/W/D/1_/11_	Y	B
3		F/S/C/3_/1__	Y	C
4		F/W/D/3_/1__	Y	D
5		_/_/C/1_/11_	Y	I
6		F/O/H/18/___	N	F
7		F/O/I/19/___	N	G

LINE #	OWN NAME	NET	NET ACCESS	PHY ADD	MOI ADD
1	F/O/H/18/___	COFC	4	F	N/A

LINE #	NET	LOGICAL NAME	COMPTR	PHY ADD	MOI ADD	SID CODE	AGENCY	MULITISUBS GROUP
1	COFC	_/_/_/1_/11_	Y	A				
2		F/W/D/1_/11_	Y	B				
3		F/S/C/3_/1__	Y	C				
4		F/W/D/3_/1__	Y	D				
5		_/_/C/1_/11_	Y	I				
6		F/O/G/17/___	N	E				
7		F/O/I/19/___	N	G				

LINE #	OWN NAME	NET	NET ACCESS	PHY ADD	MOI ADD

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1       F/O/I/19/___   COFC     4        G   N/A

LINE #  NET  LOGICAL NAME   COMPTR   PHY  MOI   SID   AGENCY  MULITISUBS
                                     ADD  ADD   CODE             GROUP
1     COFC  _/_/_/1_/11_     Y      A
2           F/W/D/1_/11_     Y      B
3           F/S/C/3_/1__     Y      C
4           F/W/D/3_/1__     Y      D
5           _/_/C/1_/11_     Y      I
6           F/O/G/17/___     N      E
7           F/O/H/18/___     N      F

LINE #     OWN NAME           NET   PROTOCOL    NET ACCESS  ADD  MOI   RANK
                                                             ADD
1       FSCC MAIN 5MAR      DFSC   VMF         ADAPTIVE    18         6/11
2       FSCC MAIN 5MAR      RFSC   VMF         ADAPTIVE    02         1/10

LINE #        STATION NAME        DEVICE  ADD  MOI   AGENCY   FO#    ROUTE
                                          ADD
1           FSCC MAIN 1MARDIV           12                          PD via DFSC net
2           FSCC FWD 1MARDIV            13                          PD via DFSC net
3           DASC MAIN 3MARWNG           14                          PD via DFSC net
4           DASC FWD 3MARWNG            15                          PD via DFSC net
5           FSCC MAIN 1MAR              16                          PD via DFSC net
6           FSCC FWD 1MAR               17                          PD via DFSC net
7           FSCC MAIN 7MAR              20                          PD via DFSC net
8           FSCC FWD 7MAR               21                          PD via DFSC net
9           FDC MAIN 11 MAR             22                          PD via DFSC net
10           FDC FWD 11MAR               23                          PD via DFSC net
11           FSCC FWD 5MAR               03                          PD via RFSC net
12           FSCC MAIN 1/5               04                          PD via RFSC net
13           FSCC FWD 1/5                05                          PD via RFSC net
14           FSCC MAIN 2/5               06                          PD via RFSC net
15           FSCC FWD 2/5                07                          PD via RFSC net
16           FSCC MAIN 3/5               08                          PD via RFSC net
17           FSCC FWD 3/5                09                          PD via RFSC net
18           FDC MAIN 2/11               10                          PD via RFSC net
19           FDC FWD 2/11                11                          PD via RFSC net

LINE #     OWN NAME           NET   PROTOCOL    NET ACCESS  ADD  MOI   RANK
                                                             ADD
1       FSCC MAIN 1/5       RFSC   VMF         ADAPTIVE    04         1/10
2       F/S/C/1_/5__        COFA   TACFIRE     1/3/3/5      C  N/A

LINE #       STATION NAME        DEVICE  ADD  MOI   AGENCY   FO#    ROUTE
                                          ADD
1          FSCC MAIN 5MAR               02                          PD via RFSC net
2          FSCC FWD 5MAR                03                          PD via RFSC net
3          FSCC FWD 1/5                 05                          PD via RFSC net
4          FSCC MAIN 2/5                06                          PD via RFSC net
5          FSCC FWD 2/5                 07                          PD via RFSC net
6          FSCC MAIN 3/5                08                          PD via RFSC net
7          FSCC FWD 3/5                 09                          PD via RFSC net
8          FDC MAIN 2/11                10                          PD via RFSC net
9                                        A                          SD via COF A
10          FDC FWD 2/11                11                          PD via RFSC net
11                                       B                          SD via COF A
12          FO 51 A CO_                  E                   51     PD via COF A
13                                                                  SI via FDC MAIN
14          FO 52 B CO___                F                   52     PD via COF A
15                                                                  SI via FDC MAIN
16          FO 53 C CO __                G                   53     PD via COF A
17                                                                  SI via FDC MAIN

LINE #     OWN NAME     NET   NET ACCESS  PHY
                                          ADD
1       F/O/A/51/___   COFA     4        E
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LINE #	NET	LOGICAL NAME	COMPTR	PHY ADD
1	COFA	_/_/_/2_/11_	Y	A
2		F/W/D/2_/11_	Y	B
3		F/S/C/1_/5__	Y	C
4		F/W/D/1_/5__	Y	D
5		/ /E/2_/11_	Y	I
6		F/O/B/52/___	N	F
7		F/O/C/53/___	N	G

LINE #	OWN NAME	NET	NET ACCESS	PHY ADD
1	F/O/B/52/___	COFA	4	F

LINE #	NET	LOGICAL NAME	COMPTR	PHY ADD
1	COFA	_/_/_/2_/11_	Y	A
2		F/W/D/2_/11_	Y	B
3		F/S/C/1_/5__	Y	C
4		F/W/D/1_/5__	Y	D
5		/ /E/2_/11_	Y	I
6		F/O/A/51/___	N	E
7		F/O/C/53/___	N	G

LINE #	OWN NAME	NET	NET ACCESS	PHY ADD
1	F/O/C/53/___	COFA	4	G

LINE #	NET	LOGICAL NAME	COMPTR	PHY ADD
1	COFA	_/_/_/2_/11_	Y	A
2		F/W/D/2_/11_	Y	B
3		F/S/C/1_/5__	Y	C
4		F/W/D/1_/5__	Y	D
5		/ /E/2_/11_	Y	I
6		F/O/A/51/___	N	E
7		F/O/B/52/___	N	F

LINE #	OWN NAME	NET	PROTOCOL	NET ACCESS	ADD	MOI ADD	RANK
1	FSCC MAIN 2/5	RFSC	VMF	ADAPTIVE	06		5/10
2	F/S/C/2_/5__	COFB	TACFIRE	1/3/3/5	K	N/A	

LINE #	STATION NAME	DEVICE	ADD	MOI ADD	AGENCY	FO#	ROUTE
1	FSCC MAIN 5MAR		02				PD via RFSC net
2	FSCC FWD 5MAR		03				PD via RFSC net
3	FSCC FWD 2/5		07				PD via RFSC net
4	FSCC MAIN 1/5		04				PD via RFSC net
5	FSCC FWD 1/5		05				PD via RFSC net
6	FSCC MAIN 3/5		08				PD via RFSC net
7	FSCC FWD 3/5		09				PD via RFSC net
8	FDC MAIN 2/11		10				PD via RFSC net
9			A				SD via COF B
10	FDC FWD 2/11		11				PD via RFSC net
11			B				SD via COF B
12	FO 54 E CO_		M			54	PD via COF B
13							SI via FDC MAIN
14	FO 55 F CO___		N			55	PD via COF B
15							SI via FDC MAIN
16	FO 56 G CO __		O			56	PD via COF B
17							SI via FDC MAIN

LINE #	OWN NAME	NET	NET ACCESS	PHY ADD	MOI ADD
1	F/O/D/54/___	COFB	4	M	N/A

LINE #	NET	LOGICAL NAME	COMPTR	PHY ADD
1	COFB	_/_/_/2_/11_	Y	A
2		F/W/D/2_/11_	Y	B
3		F/S/C/2_/5__	Y	K
4		F/W/D/2_/5__	Y	L
5		_/_/F/2_/11_	Y	0
6		F/O/E/55/___	N	N
7		F/O/F/56/___	N	O

LINE #	OWN NAME	NET	NET ACCESS	PHY ADD
1	F/O/E/55/___	COFB	4	M

LINE #	NET	LOGICAL NAME	COMPTR	PHY ADD
1	COFB	_/_/_/2_/11_	Y	A
2		F/W/D/2_/11_	Y	B
3		F/S/C/2_/5__	Y	K
4		F/W/D/2_/5__	Y	L
5		_/_/F/2_/11_	Y	0
6		F/O/D/54/___	N	M
7		F/O/F/56/___	N	O

LINE #	OWN NAME	NET	NET ACCESS	PHY ADD	MOI ADD
1	F/O/F/56/___	COFB	4	O	N/A

LINE #	NET	LOGICAL NAME	COMPTR	PHY ADD
1	COFB	_/_/_/2_/11_	Y	A
2		F/W/D/2_/11_	Y	B
3		F/S/C/2_/5__	Y	K
4		F/W/D/2_/5__	Y	L
5		_/_/F/2_/11_	Y	0
6		F/O/D/54/___	N	M
7		F/O/E/55/___	N	N

LINE #	OWN NAME	NET	PROTOCOL	NET ACCESS	ADD	MOI ADD	RANK
1	FSCC MAIN 3/5	RFSC	VMF	ADAPTIVE	08		7/10
2	F/S/C/3_/5__	COFC	TACFIRE	1/3/3/5	C	N/A	

LINE #	STATION NAME	DEVICE	ADD	MOI ADD	AGENCY	FO#	ROUTE
1	FSCC MAIN 5MAR		02				PD via RFSC net
2	FSCC FWD 5MAR		03				PD via RFSC net
3	FSCC FWD 3/5		09				PD via RFSC net
4	FSCC MAIN 1/5		04				PD via RFSC net
5	FSCC FWD 1/5		05				PD via RFSC net
6	FSCC MAIN 2/5		06				PD via RFSC net
7	FSCC FWD 2/5		07				PD via RFSC net
8	FDC MAIN 2/11		10				PD via RFSC net
9			A				SD via COF C
10	FDC FWD 2/11		11				PD via RFSC net
11			B				SD via COF C
12	FO 57 H CO_		E			57	PD via COF C
13							SI via FDC MAIN
14	FO 58 I CO___		F			58	PD via COF C
15							SI via FDC MAIN
16	FO 59 K CO __		G			59	PD via COF C
17							SI via FDC MAIN

LINE #	OWN NAME	NET	NET ACCESS	PHY ADD
1	F/O/G/57/___	COFC	4	G

LINE #	NET	LOGICAL NAME	COMPTR	PHY ADD
1	COFC	_/_/_/2_/11_	Y	A
2		F/W/D/2_/11_	Y	B
3		F/S/C/3_/5__	Y	C
4		F/W/D/3_/5__	Y	D
5		_/_/G/2_/11_	Y	I
6		F/O/H/58/___	N	F
7		F/O/I/59/___	N	G

LINE #	OWN NAME	NET	NET ACCESS	PHY ADD	MOI ADD
1	F/O/H/58/___	COFC	4	F	N/A

LINE #	NET	LOGICAL NAME	COMPTR	PHY ADD
1	COFC	_/_/_/2_/11_	Y	A
2		F/W/D/2_/11_	Y	B
3		F/S/C/3_/5__	Y	C
4		F/W/D/3_/5__	Y	D
5		_/_/G/2_/11_	Y	I
6		F/O/G/57/___	N	E
7		F/O/I/59/___	N	G

LINE #	OWN NAME	NET	NET ACCESS	PHY ADD	MOI ADD
1	F/O/I/59/___	COFC	4	G	N/A

LINE #	NET	LOGICAL NAME	COMPTR	PHY ADD
1	COFC	_/_/_/2_/11_	Y	A
2		F/W/D/2_/11_	Y	B
3		F/S/C/3_/5__	Y	C
4		F/W/D/3_/5__	Y	D
5		_/_/G/2_/11_	Y	I
6		F/O/G/57/___	N	E
7		F/O/H/58/___	N	F

LINE #	OWN NAME	NET	PROTOCOL	NET ACCESS	ADD	MOI ADD	RANK
1	FSCC MAIN 7MAR	DFSC	VMF	ADAPTIVE	20		8/11
2	FSCC MAIN 7MAR	RFSC	VMF	ADAPTIVE	02		1/10

LINE #	STATION NAME	DEVICE	ADD	MOI ADD	AGENCY	FO#	ROUTE
1	FSCC MAIN 1MARDIV	12					PD via DFSC net
2	FSCC FWD 1MARDIV	13					PD via DFSC net
3	DASC MAIN 3MARWNG	14					PD via DFSC net
4	DASC FWD 3MARWNG	15					PD via DFSC net
5	FSCC MAIN 1MAR	16					PD via DFSC net
6	FSCC FWD 1MAR	17					PD via DFSC net
7	FSCC MAIN 5MAR	18					PD via DFSC net
8	FSCC FWD 5MAR	19					PD via DFSC net
9	FDC MAIN 11 MAR	22					PD via DFSC net
10	FDC FWD 11MAR	23					PD via DFSC net

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11        FSCC FWD 7MAR                 03                        PD via RFSC net
12        FSCC MAIN 1/7                 04                        PD via RFSC net
13        FSCC FWD 1/7                  05                        PD via RFSC net
14        FSCC MAIN 2/7                 06                        PD via RFSC net
15        FSCC FWD 2/7                  07                        PD via RFSC net
16        FSCC MAIN 3/7                 08                        PD via RFSC net
17        FSCC FWD 3/7                  09                        PD via RFSC net
18        FDC MAIN 3/11                 10                        PD via RFSC net
19        FDC FWD 3/11                  11                        PD via RFSC net

LINE #     OWN NAME           NET   PROTOCOL    NET ACCESS  ADD  MOI   RANK
                                                              ADD
1       FSCC MAIN 1/7        RFSC  VMF          ADAPTIVE   04        1/10
2       F/S/C/1_/7__         COFA  TACFIRE      1/3/3/5     C  N/A

LINE #       STATION NAME        DEVICE  ADD  MOI   AGENCY   FO#    ROUTE
                                         ADD
1          FSCC MAIN 5MAR               02                        PD via RFSC net
2          FSCC FWD 5MAR                03                        PD via RFSC net
3          FSCC FWD 1/7                 05                        PD via RFSC net
4          FSCC MAIN 2/7                06                        PD via RFSC net
5          FSCC FWD 2/7                 07                        PD via RFSC net
6          FSCC MAIN 3/7                08                        PD via RFSC net
7          FSCC FWD 3/7                 09                        PD via RFSC net
8          FDC MAIN 3/11                10                        PD via RFSC net
9                                        A                        SD via COF A
10          FDC FWD 3/11                11                         PD via RFSC net
11                                       B                         SD via COF A
12          FO 71 A CO_                  E                  71     PD via COF A
13                                                                 SI via FDC MAIN
14          FO 72 B CO___                F                  72     PD via COF A
15                                                                 SI via FDC MAIN
16          FO 73 C CO __                G                  73     PD via COF A
17                                                                 SI via FDC MAIN


LINE #     OWN NAME     NET   NET ACCESS  PHY
                                          ADD
1       F/O/A/71/___   COFA     4        E

LINE #  NET  LOGICAL NAME   COMPTR   PHY
                                     ADD
1     COFA  _/_/_/3_/11_     Y      A
2           F/W/D/3_/11_     Y      B
3           F/S/C/1_/7__     Y      C
4           F/W/D/1_/7__     Y      D
5            / /I/3_/11_     Y      I
6           F/O/B/72/___     N      F
7           F/O/C/73/___     N      G

LINE #     OWN NAME     NET   NET ACCESS  PHY
                                          ADD
1       F/O/B/72/___   COFA     4        F


LINE #  NET  LOGICAL NAME   COMPTR   PHY
                                     ADD
1     COFA  _/_/_/3_/11_     Y      A
2           F/W/D/3_/11_     Y      B
3           F/S/C/1_/7__     Y      C
4           F/W/D/1_/7__     Y      D
5            / /I/3_/11_     Y      I
6           F/O/A/71/___     N      E
7           F/O/C/73/___     N      G
```

LINE #	OWN NAME	NET	NET ACCESS	PHY ADD
1	F/O/C/73/___	COFA	4	G

LINE #	NET	LOGICAL NAME	COMPTR	PHY ADD
1	COFA	_/_/_/3_/11_	Y	A
2		F/W/D/3_/11_	Y	B
3		F/S/C/1_/7__	Y	C
4		F/W/D/1_/7__	Y	D
5		/ /I/3_/11_	Y	I
6		F/O/A/71/___	N	E
7		F/O/B/72/___	N	F

LINE #	OWN NAME	NET	PROTOCOL	NET ACCESS	ADD	MOI ADD	RANK
1	FSCC MAIN 2/7	RFSC	VMF	ADAPTIVE	06		5/10
2	F/S/C/2_/7__	COFB	TACFIRE	1/3/3/5	K	N/A	

LINE #	STATION NAME	DEVICE	ADD	MOI ADD	AGENCY	FO#	ROUTE
1	FSCC MAIN 7MAR		02				PD via RFSC net
2	FSCC FWD 7MAR		03				PD via RFSC net
3	FSCC FWD 2/7		07				PD via RFSC net
4	FSCC MAIN 1/7		04				PD via RFSC net
5	FSCC FWD 1/7		05				PD via RFSC net
6	FSCC MAIN 3/7		08				PD via RFSC net
7	FSCC FWD 3/7		09				PD via RFSC net
8	FDC MAIN 3/11		10				PD via RFSC net
9			A				SD via COF B
10	FDC FWD 3/11		11				PD via RFSC net
11			B				SD via COF B
12	FO 74 E CO_		M			74	PD via COF B
13							SI via FDC MAIN
14	FO 75 F CO___		N			75	PD via COF B
15							SI via FDC MAIN
16	FO 76 G CO __		O			76	PD via COF B
17							SI via FDC MAIN

LINE #	OWN NAME	NET	NET ACCESS	PHY ADD	MOI ADD
1	F/O/D/74/___	COFB	4	M	N/A

LINE #	NET	LOGICAL NAME	COMPTR	PHY ADD
1	COFB	_/_/_/3_/11_	Y	A
2		F/W/D/3_/11_	Y	B
3		F/S/C/2_/7__	Y	K
4		F/W/D/2_/7__	Y	L
5		_/_/K/3_/11_	Y	0
6		F/O/E/75/___	N	N
7		F/O/F/76/___	N	O

LINE #	OWN NAME	NET	NET ACCESS	PHY ADD
1	F/O/E/75/___	COFB	4	M

LINE #	NET	LOGICAL NAME	COMPTR	PHY ADD
1	COFB	_/_/_/3_/11_	Y	A
2		F/W/D/3_/11_	Y	B

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3           F/S/C/2_/7__      Y      K
4           F/W/D/2_/7__      Y      L
5           _/_/K/3_/11_      Y      0
6           F/O/D/74/___      N      M
7           F/O/F/76/___      N      O

LINE #     OWN NAME     NET   NET ACCESS  PHY  MOI
                                          ADD  ADD
1       F/O/F/76/___  COFB     4         O   N/A

LINE #  NET  LOGICAL NAME   COMPTR   PHY
                                     ADD
1     COFB  _/_/_/3_/11_     Y      A
2           F/W/D/3_/11_     Y      B
3           F/S/C/2_/7__     Y      K
4           F/W/D/2_/7__     Y      L
5           _/_/K/3_/11_     Y      0
6           F/O/D/74/___     N      M
7           F/O/E/75/___     N      N

LINE #     OWN NAME           NET   PROTOCOL    NET ACCESS  ADD  MOI   RANK
                                                             ADD
1       FSCC MAIN 3/7       RFSC  VMF          ADAPTIVE   08         7/10
2       F/S/C/3_/7__        COFC  TACFIRE      1/3/3/5     C   N/A

LINE #       STATION NAME        DEVICE  ADD  MOI   AGENCY   FO#     ROUTE
                                          ADD
1          FSCC MAIN 7MAR               02                        PD via RFSC net
2          FSCC FWD 7MAR                03                        PD via RFSC net
3          FSCC FWD 3/7                 09                        PD via RFSC net
4          FSCC MAIN 1/7                04                        PD via RFSC net
5          FSCC FWD 1/7                 05                        PD via RFSC net
6          FSCC MAIN 2/7                06                        PD via RFSC net
7          FSCC FWD 2/7                 07                        PD via RFSC net
8          FDC MAIN 3/11                10                        PD via RFSC net
9                                        A                        SD via COF C
10          FDC FWD 3/11                11                         PD via RFSC net
11                                       B                         SD via COF C
12          FO 77 H CO_                  E                  77     PD via COF C
13                                                                 SI via FDC MAIN
14          FO 78 I CO___                F                  78     PD via COF C
15                                                                 SI via FDC MAIN
16          FO 79 K CO __                G                  79     PD via COF C
17                                                                 SI via FDC MAIN

LINE #     OWN NAME     NET   NET ACCESS  PHY
                                          ADD
1       F/O/G/77/___  COFC     4         G

LINE #  NET  LOGICAL NAME   COMPTR   PHY
                                     ADD
1     COFC  _/_/_/3_/11_     Y      A
2           F/W/D/3_/11_     Y      B
3           F/S/C/3_/7__     Y      C
4           F/W/D/3_/7__     Y      D
5           _/_/L/3_/11_     Y      I
6           F/O/H/78/___     N      F
7           F/O/I/79/___     N      G

LINE #     OWN NAME     NET   NET ACCESS  PHY  MOI
                                          ADD  ADD
1       F/O/H/78/___   COFC     4        F   N/A

LINE #  NET  LOGICAL NAME   COMPTR   PHY  MOI   SID   AGENCY  MULITISUBS
                                     ADD  ADD   CODE             GROUP
1     COFC  _/_/_/3_/11_     Y      A
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2           F/W/D/3_/11_     Y      B
3           F/S/C/3_/7__     Y      C
4           F/W/D/3_/7__     Y      D
5           _/_/L/3_/11_     Y      I
6           F/O/G/77/___     N      E
7           F/O/I/79/___     N      G

LINE #     OWN NAME     NET   NET ACCESS  PHY  MOI
                                          ADD  ADD
1       F/O/I/79/___  COFC     4         G   N/A

LINE #  NET  LOGICAL NAME   COMPTR   PHY
                                     ADD
1     COFC  _/_/_/3_/11_     Y      A
2           F/W/D/3_/11_     Y      B
3           F/S/C/3_/7__     Y      C
4           F/W/D/3_/7__     Y      D
5           _/_/L/3_/11_     Y      I
6           F/O/G/77/___     N      E
7           F/O/H/78/___     N      F

LINE #     OWN NAME           NET   PROTOCOL    NET ACCESS  ADD  MOI   RANK
                                                             ADD
1       _FDC MAIN 11MAR     DFSC  VMF         ADAPTIVE     22
2       _FDC MAIN 11MAR     RFD   VMF         ADAPTIVE     02         1/10
3        FDC MAIN 11MAR     TPC   LAN   elevenmar    193.8.12.11

LINE #        STATION NAME        DEVICE  ADD  MOI   AGENCY   FO#    ROUTE
                                           ADD
1           FSCC MAIN 1MARDIV           12                        PD via DFSC net
2           FSCC FWD 1MARDIV            13                        PD via DFSC net
3           DASC MAIN 3MARWNG           14                        PD via DFSC net
4           DAS6 FWD 3MARWNG            15                        PD via DFSC net
5           FSCC MAIN 1MAR              16                        PD via DFSC net
6           FSCC FWD 1MAR               17                        PD via DFSC net
7           FSCC MAIN 5MAR              18                        PD via DFSC net
8           FSCC FWD 5MAR               19                        PD via DFSC net
9           FSCC MAIN 7MAR              20                        PD via DFSC net
10           FSCC FWD 7MAR               21                        PD via DFSC net
11           FDC FWD 11MAR               03                        PD via RFD net
12           FDC MAIN 1/11               04                        PD via RFD net
13           FDC FWD 1/11                05                        PD via RFD net
14           FDC MAIN 2/11               06                        PD via RFD net
15           FDC FWD 2/11                07                        PD via RFD net
16           FDC MAIN 3/11               08                        PD via RFD net
17           FDC FWD 3/11                09                        PD via RFD net
18           FDC MAIN 5/11               10                        PD via RFD net
19           FDC FWD 5/11                11                        PD via RFD net
20           TPC MAIN 11MAR     tpcelevenmar 193.8.12.12            PD via TPC WIRE
21           TPC FWD 11MAR                                                     PD via TPC WIRE

LINE #     OWN NAME           NET   PROTOCOL    NET ACCESS  ADD  MOI   RANK
                                                             ADD
1       TPC MAIN 11 MAR  TPC WIRE   LAN    tpcelevenmar     193.8.12.12
2       TPC MAIN 11MAR   RDR/MET   TACFIRE    1/3_/3_/5_   K   N/A



LINE #  NET  STATION NAME        DEVICE  ADD  MOI   AGENCY   FO#     ROUTE
                                           ADD
1           FSCC MAIN 1MARDIV                                       PI via FDC MAIN 11MAR
2           FSCC FWD 1MARDIV                                        PI via FDC MAIN 11MAR
3           FDC MAIN 11MAR    elevenmar      193.8.12.11              PD via TPC WIRE
4           FDC FWD 11MAR                                           PI via FDC MAIN 11MAR
5           CBR 01                      M                  01      PD via RDR/MET
6           CBR 02                      N                  02      PD via RDR/MET
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7	CBR 03	O	03	PD via RDR/MET
8	CBR 04	P	04	PD via RDR/MET
9	MET 01	1		PD via RDR/MET
10	MET 02	2		PD via RDR/MET
11	MET 03	3		PD via RDR/MET
12	MET 04	4		PD via RDR/MET

LINE #	OWN NAME	NET	PROTOCOL	NET ACCESS	PHY ADD	MOI ADD	RANK
1	FDC MAIN 1/11	RFSC	VMF	ADAPTIVE	10		
2	FDC MAIN 1/11	RFD	VMF	ADAPTIVE	04		
3	FDC MAIN 1/11	COFA	TACFIRE	2_/4_/4_/6_	A	N/A	
4	FDC MAIN 1/11	COFB	TACFIRE	2_/4_/4_/6_	A	N/A	

LINE #	STATION NAME	DEVICE	ADD	MOI ADD	AGENCY	FO#	ROUTE
1	FSCC MAIN 1MAR	02					PD via RFSC net
2	FSCC FWD 1MAR	03					PD via RFSC net
3	FSCC MAIN 1/1	04					PD via RFSC net
4	FSCC FWD 1/1	05					PD via RFSC net
5	FSCC MAIN 2/1	06					PD via RFSC net
6	FSCC FWD 2/1	07					PD via RFSC net
7	FSCC MAIN 3/1	08					PD via RFSC net
8	FSCC FWD 3/1	09					PD via RFSC net
9	FDC FWD 1/11	05					PD via RFD net
10	FDC MAIN 11MAR	02					PD via RFD net
11	FDC FWD 11MAR	03					PD via RFD net
12	FDC MAIN 2/11	06					PD via RFD net
13	FDC FWD 2/11	07					PD via RFD net
14	FDC MAIN 3/11	08					PD via RFD net
15	FDC FWD 3/11	09					PD via RFD net
16	FDC MAIN 5/11	10					PD via RFD net
17	FDC FWD 5/11	11					PD via RFD net
18	FO 11 A CO_	E			11		PD via COFA
19							SI via FSCC MAIN 1/1
20	FO 12 B CO___	F			12		PD via COFA
21							SI via FSCC MAIN 1/1
22	FO 13 C CO __	G			13		PD via COFA
23							SI via FSCC MAIN 1/1
24	FDC A 1/11	I					PD via COFA
25	FO 14 E CO_	M			14		PD via COFA
26							SI via FSCC MAIN 2/1
27	FO 15 F CO__	N			15		PD via COFA
28							SI via FSCC MAIN 2/1
29	FO 16 G CO _	O			16		PD via COFA
30							SI via FSCC MAIN 2/1
31	FDC B 1/11	0					PD via COFA
32	FO 17 H CO_	E			17		PD via COFB
33							SI via FSCC MAIN 3/1
34	FO 18 I CO___	F			18		PD via COFB
35							SI via FSCC MAIN 3/1
36	FO 19 K CO __	G			19		PD via COFB
37							SI via FSCC MAIN 3/1
38	FDC C 1/11	I					PD via COFB

LINE #	OWN NAME	NET	PROTOCOL	NET ACCESS	PHY ADD	MOI ADD	RANK
1	FDC A 1/11	COFA	TACFIRE	1/3/3/5	I	N/A	
2	FDC A 1/11	BRTY WIRE	TACFIRE	1/1/1/1	J	N/A	

LINE #	STATION NAME	DEVICE	ADD	MOI	AGENCY	FO#	ROUTE

			ADD	
1	FDC MAIN 1/11	A		PD via COFA
2	FDC FWD 1/11	B		PD via COFA
3	FO 11 A CO_	E	11	PD via COFA
4				SI via FDC MAIN 1/11
5	FO 12 B CO___	F	12	PD via COFA
6				SI via FDC MAIN 1/11
7	FO 13 C CO __	G	13	PD via COFA
8				SI via FDC MAIN 1/11
9	FDC B 1/11	0		PD via COFA
10	FO 14 E CO_	M	14	PD via COFA
11				SI via FDC MAIN 1/11
12	FO 15 F CO__	N	15	PD via COFA
13				SI via FDC MAIN 1/11
14	FO 16 G CO _	O	16	PD via COFA
15				SI via FDC MAIN 1/11
16	FDC B 1/11	0		PD via COFA
17	FO 17 H CO_		17	PI via FDC MAIN 1/11
18	FO 18 I CO___		18	PI via FDC MAIN 1/11
19	FO 19 K CO __		19	PI via FDC MAIN 1/11
20	FDC C 1/11			PD via FDC MAIN 1/11
21	BCS A 1/11	J		PD via BTRY WIRE net

LINE #	OWN NAME	NET	PROTOCOL	NET ACCESS	PHY ADD	MOI ADD	RANK
1	FDC B 1/11	COFA	TACFIRE	1/3/3/5	0	N/A	
2	FDC B 1/11	BRTY WIRE	TACFIRE	1/1/1/1	0	N/A	

LINE #	STATION NAME	DEVICE	ADD	MOI ADD	AGENCY	FO#	ROUTE
1	FDC MAIN 1/11		A				PD via COFA
2	FDC FWD 1/11		B				PD via COFA
3	FO 11 A CO_		E		11		PD via COFA
4							SI via FDC MAIN 1/11
5	FO 12 B CO___		F		12		PD via COFA
6							SI via FDC MAIN 1/11
7	FO 13 C CO __		G		13		PD via COFA
8							SI via FDC MAIN 1/11
9	FDC A 1/11		I				PD via COFA
10	FO 14 E CO_		M		14		PD via COFA
11							SI via FDC MAIN 1/11
12	FO 15 F CO__		N		15		PD via COFA
13							SI via FDC MAIN 1/11
14	FO 16 G CO _		O		16		PD via COFA
15							SI via FDC MAIN 1/11
16	FDC C 1/11						PD via COFA
17	FO 17 H CO_				17		PI via FDC MAIN 1/11
18	FO 18 I CO___				18		PI via FDC MAIN 1/11
19	FO 19 K CO __				19		PI via FDC MAIN 1/11
20	FDC C 1/11						PD via FDC MAIN 1/11
21	BCS B 1/11		1				PD via BTRY WIRE net

LINE #	OWN NAME	NET	PROTOCOL	NET ACCESS	PHY ADD	MOI ADD	RANK
1	FDC C 1/11	COFB	TACFIRE	1/3/3/5	0	N/A	
2	FDC C 1/11	BRTY WIRE	TACFIRE	1/1/1/1	0	N/A	

LINE #	STATION NAME	DEVICE	ADD	MOI ADD	AGENCY	FO#	ROUTE
1	FDC MAIN 1/11		A				PD via COFB
2	FDC FWD 1/11		B				PD via COFB
3	FO 11 A CO_				11		PI via FDC MAIN 1/11

4	FO 12 B CO___		12	PI via COFA
5	FO 13 C CO __		13	PI via COFA
6	FDC A 1/11			PI via COFA
7	FO 14 E CO_		14	PI via COFA
8	FO 15 F CO__		15	PI via COFA
9	FO 16 G CO _		16	PI via COFA
10	FDC B 1/11			PI via COFA
11	FO 17 H CO_	E	17	PD via COFB
12				SI via FDC MAIN 1/11
13	FO 18 I CO___	F	18	PD via COFB
14				SI via FDC MAIN 1/11
15	FO 19 K CO __	G	19	PD via COFB
16				SI via FDC MAIN 1/11
17	BCS C 1/11	J		PD via BTRY WIRE net

LINE #	OWN NAME	NET	PROTOCOL	NET ACCESS	PHY ADD	MOI ADD	RANK
1	FDC MAIN 2/11	RFSC	VMF	ADAPTIVE	10		
2	FDC MAIN 2/11	RFD	VMF	ADAPTIVE	06		
3	FDC MAIN 2/11	COFA	TACFIRE	2_/4_/4_/6_	A	N/A	
4	FDC MAIN 2/11	COFB	TACFIRE	2_/4_/4_/6_	A	N/A	

LINE #	STATION NAME	DEVICE	ADD	MOI ADD	AGENCY	FO#	ROUTE
1	FSCC MAIN 5MAR		02				PD via RFSC net
2	FSCC FWD 5MAR		03				PD via RFSC net
3	FSCC MAIN 1/5		04				PD via RFSC net
4	FSCC FWD 1/5		05				PD via RFSC net
5	FSCC MAIN 2/5		06				PD via RFSC net
6	FSCC FWD 2/5		07				PD via RFSC net
7	FSCC MAIN 3/5		08				PD via RFSC net
8	FSCC FWD 3/5		09				PD via RFSC net
9	FDC FWD 2/11		07				PD via RFD net
10	FDC MAIN 11MAR		02				PD via RFD net
11	FDC FWD 11MAR		03				PD via RFD net
12	FDC MAIN 1/11		04				PD via RFD net
13	FDC FWD 1/11		05				PD via RFD net
14	FDC MAIN 3/11		08				PD via RFD net
15	FDC FWD 3/11		09				PD via RFD net
16	FDC MAIN 5/11		10				PD via RFD net
17	FDC FWD 5/11		11				PD via RFD net
18	FO 51 A CO_		E			51	PD via COFA
19							SI via FSCC MAIN 1/5
20	FO 52 B CO___		F			52	PD via COFA
21							SI via FSCC MAIN 1/5
22	FO 53 C CO __		G			53	PD via COFA
23							SI via FSCC MAIN 1/5
24	FDC E 2/11		I				PD via COFA
25	FO 54 E CO_		M			54	PD via COFA
26							SI via FSCC MAIN 2/5
27	FO 55 F CO__		N			55	PD via COFA
28							SI via FSCC MAIN 2/5
29	FO 56 G CO _		O			56	PD via COFA
30							SI via FSCC MAIN 2/5
31	FDC F 2/11		0				PD via COFA
32	FO 57 H CO_		E			57	PD via COFB
33							SI via FSCC MAIN 3/5
34	FO 58 I CO___		F			58	PD via COFB
35							SI via FSCC MAIN 3/5
36	FO 59 K CO __		G			59	PD via COFB
37							SI via FSCC MAIN 3/5
38	FDC G 2/11		I				PD via COFB

LINE #	OWN NAME	NET	PROTOCOL	NET ACCESS	PHY ADD	MOI ADD	RANK
1	FDC E 2/11	COFA	TACFIRE	1/3/3/5	I	N/A	

```
2       FDC E 2/11      BRTY WIRE  TACFIRE     1/1/1/1     J   N/A

LINE #       STATION NAME        DEVICE  ADD  MOI   AGENCY   FO#    ROUTE
                                         ADD
1          FDC MAIN 2/11                A                         PD via COFA
2          FDC FWD 2/11                 B                         PD via COFA
3          FO 51 A CO_                  E                  11     PD via COFA
4                                                                 SI via FDC MAIN 2/11
5          FO 52 B CO___                F                  12     PD via COFA
6                                                                 SI via FDC MAIN 2/11
7          FO 53 C CO __                G                  13     PD via COFA
8                                                                 SI via FDC MAIN 2/11
9          FDC F 2/11                   0                         PD via COFA
10          FO 54 E CO_                  M                  14     PD via COFA
11                                                                 SI via FDC MAIN 2/11
12          FO 55 F CO__                 N                  15     PD via COFA
13                                                                 SI via FDC MAIN 2/11
14          FO 56 G CO _                 O                  16     PD via COFA
15                                                                 SI via FDC MAIN 2/11
16          FO 57 H CO_                                     17     PI via FDC MAIN 2/11
17          FO 58 I CO___                                   18     PI via FDC MAIN 2/11
18          FO 59 K CO __                                   19     PI via FDC MAIN 2/11
19          FDC G 1/11                                             PD via FDC MAIN 2/11
20          BCS A 1/11                   J                         PD via BTRY WIRE net


LINE #     OWN NAME           NET   PROTOCOL    NET ACCESS  PHY  MOI   RANK
                                                             ADD  ADD
1       FDC F 2/11          COFA   TACFIRE     1/3/3/5     0   N/A
2       FDC F 2/11      BRTY WIRE  TACFIRE     1/1/1/1     0   N/A

LINE #       STATION NAME        DEVICE  ADD  MOI   AGENCY   FO#    ROUTE
                                         ADD
1          FDC MAIN 2/11                A                         PD via COFA
2          FDC FWD 2/11                 B                         PD via COFA
3          FO 51 A CO_                  E                  11     PD via COFA
4                                                                 SI via FDC MAIN 2/11
5          FO 52 B CO___                F                  12     PD via COFA
6                                                                 SI via FDC MAIN 2/11
7          FO 53 C CO __                G                  13     PD via COFA
8                                                                 SI via FDC MAIN 2/11
9          FDC E 2/11                   I                         PD via COFA
10          FO 54 E CO_                  M                  14     PD via COFA
11                                                                 SI via FDC MAIN 2/11
12          FO 55 F CO__                 N                  15     PD via COFA
13                                                                 SI via FDC MAIN 2/11
14          FO 56 G CO _                 O                  16     PD via COFA
15                                                                 SI via FDC MAIN 2/11
16          FO 57 H CO_                                     17     PI via FDC MAIN 2/11
17          FO 58 I CO___                                   18     PI via FDC MAIN 2/11
18          FO 59 K CO __                                   19     PI via FDC MAIN 2/11
19          FDC G 2/11                                             PD via FDC MAIN 2/11
20          BCS F 1/11                   1                         PD via BTRY WIRE net

LINE #     OWN NAME           NET   PROTOCOL    NET ACCESS  PHY  MOI   RANK
                                                             ADD  ADD
1       FDC G 2/11          COFB   TACFIRE     1/3/3/5     0   N/A
2       FDC G 2/11      BRTY WIRE  TACFIRE     1/1/1/1     0   N/A


LINE #  NET  STATION NAME        DEVICE  ADD  MOI   AGENCY   FO#    ROUTE
                                         ADD
1          FDC MAIN 2/11                A                         PD via COFB
2          FDC FWD 2/11                 B                         PD via COFB
3          FO 51 A CO_                  E                   11    PI via FDC MAIN 2/11
```

4	FO 52 B CO___	F	12	PI via COFA
5	FO 53 C CO __	G	13	PI via COFA
6	FDC E 2/11	D		PI via COFA
7	FO 54 E CO_	M	14	PI via COFA
8	FO 55 F CO__	N	15	PI via COFA
9	FO 56 G CO _	O	16	PI via COFA
10	FDC F 2/11	0		PI via COFA
11	FO 57 H CO_	E	17	PD via COFB
12				SI via FDC MAIN 2/11
13	FO 58 I CO___	F	18	PD via COFB
14				SI via FDC MAIN 2/11
15	FO 59 K CO __	G	19	PD via COFB
16				SI via FDC MAIN 2/11
17	BCS G 2/11	J		PD via BTRY WIRE net

LINE #	OWN NAME	NET	PROTOCOL	NET ACCESS	PHY ADD	MOI ADD	RANK
1	FDC MAIN 3/11	RFSC	VMF	ADAPTIVE	10		
2	FDC MAIN 3/11	RFD	VMF	ADAPTIVE	08		
3	FDC MAIN 3/11	COFA	TACFIRE	2_/4_/4_/6_	A	N/A	
4	FDC MAIN 3/11	COFB	TACFIRE	2_/4_/4_/6_	A	N/A	

LINE #	STATION NAME	DEVICE ADD	MOI ADD	AGENCY	FO#	ROUTE
1	FSCC MAIN 7MAR	02				PD via RFSC net
2	FSCC FWD 7MAR	03				PD via RFSC net
3	FSCC MAIN 1/7	04				PD via RFSC net
4	FSCC FWD 1/7	05				PD via RFSC net
5	FSCC MAIN 2/7	06				PD via RFSC net
6	FSCC FWD 2/7	07				PD via RFSC net
7	FSCC MAIN 3/7	08				PD via RFSC net
8	FSCC FWD 3/7	09				PD via RFSC net
9	FDC FWD 3/11	09				PD via RFD net
10	FDC MAIN 11MAR	02				PD via RFD net
11	FDC FWD 11MAR	03				PD via RFD net
12	FDC MAIN 1/11	04				PD via RFD net
13	FDC FWD 1/11	05				PD via RFD net
14	FDC MAIN 2/11	06				PD via RFD net
15	FDC FWD 2/11	07				PD via RFD net
16	FDC MAIN 5/11	10				PD via RFD net
17	FDC FWD 5/11	11				PD via RFD net
18	FO 71 A CO_	E			71	PD via COFA
19						SI via FSCC MAIN 1/7
20	FO 72 B CO___	F			72	PD via COFA
21						SI via FSCC MAIN 1/7
22	FO 73 C CO __	G			73	PD via COFA
23						SI via FSCC MAIN 1/7
24	FDC I 3/11	I				PD via COFA
25	FO 74 E CO_	M			74	PD via COFA
26						SI via FSCC MAIN 2/7
27	FO 75 F CO__	N			75	PD via COFA
28						SI via FSCC MAIN 2/7
29	FO 76 G CO _	O			76	PD via COFA
30						SI via FSCC MAIN 2/7
31	FDC K 3/11	0				PD via COFA
32	FO 77 H CO_	E			77	PD via COFB
33						SI via FSCC MAIN 3/7
34	FO 78 I CO___	F			78	PD via COFB
35						SI via FSCC MAIN 3/7
36	FO 79 K CO __	G			79	PD via COFB
37						SI via FSCC MAIN 3/7
38	FDC L 3/11	I				PD via COFB

LINE #	OWN NAME	NET	PROTOCOL	NET ACCESS	PHY ADD	MOI ADD	RANK
1	FDC I 3/11	COFA	TACFIRE	1/3/3/5	I	N/A	

```
2       FDC I 3/11      BRTY WIRE  TACFIRE     1/1/1/1     J   N/A

LINE #       STATION NAME        DEVICE  ADD  MOI   AGENCY   FO#    ROUTE
                                          ADD
1          FDC MAIN 3/11                A                         PD via COFA
2          FDC FWD 3/11                 B                         PD via COFA
3          FO 71 A CO_                  E                  11     PD via COFA
4                                                                 SI via FDC MAIN 2/11
5          FO 72 B CO___                F                  12     PD via COFA
6                                                                 SI via FDC MAIN 2/11
7          FO 73 C CO __                G                  13     PD via COFA
8                                                                 SI via FDC MAIN 2/11
9          FDC K 3/11                   0                         PD via COFA
10          FO 74 E CO_                  M                  14     PD via COFA
11                                                                 SI via FDC MAIN 2/11
12          FO 75 F CO__                 N                  15     PD via COFA
13                                                                 SI via FDC MAIN 2/11
14          FO 76 G CO _                 O                  16     PD via COFA
15                                                                 SI via FDC MAIN 2/11
16          FO 77 H CO_                                     17     PI via FDC MAIN 2/11
17          FO 78 I CO___                                   18     PI via FDC MAIN 2/11
18          FO 79 K CO __                                   19     PI via FDC MAIN 2/11
19          FDC L 3/11                                             PI via FDC MAIN 2/11
20          BCS I 3/11                   J                         PD via BTRY WIRE net

LINE #     OWN NAME           NET   PROTOCOL    NET ACCESS  PHY  MOI   RANK
                                                            ADD  ADD
1       FDC K 3/11          COFA   TACFIRE     1/3/3/5     0   N/A
2       FDC K 3/11      BRTY WIRE  TACFIRE     1/1/1/1     0   N/A

LINE #      STATION NAME        DEVICE   ADD  MOI   AGENCY  FO#     ROUTE
                                          ADD

1          FDC MAIN 3/11                A                         PD via COFA
2          FDC FWD 3/11                 B                         PD via COFA
3          FO 71 A CO_                  E                 11      PD via COFA
4                                                                 SI via FDC MAIN 3/11
5          FO 72 B CO___                F                 12      PD via COFA
6                                                                 SI via FDC MAIN 3/11
7          FO 73 C CO __                G                 13      PD via COFA
8                                                                 SI via FDC MAIN 3/11
9          FDC I 3/11                   I                         PD via COFA
10          FO 74 E CO_                  M                 14      PD via COFA
11                                                                 SI via FDC MAIN 3/11
12          FO 75 F CO__                 N                 15      PD via COFA
13                                                                 SI via FDC MAIN 3/11
14          FO 76 G CO _                 O                 16      PD via COFA
15                                                                 SI via FDC MAIN 3/11
16          FO 77 H CO_                                   17      PI via FDC MAIN 3/11
17          FO 78 I CO___                                 18      PI via FDC MAIN 3/11
18          FO 79 K CO __                                 19      PI via FDC MAIN 3/11
19          FDC L 3/11                                            PI via FDC MAIN 3/11
20          BCS K 3/11                   1                        PD via BTRY WIRE net

LINE #     OWN NAME           NET   PROTOCOL    NET ACCESS  PHY  MOI   RANK
                                                            ADD  ADD
1       FDC L 3/11          COFB   TACFIRE     1/3/3/5     0   N/A
2       FDC L 3/11      BRTY WIRE  TACFIRE     1/1/1/1     0   N/A



LINE #       STATION NAME        DEVICE  ADD  MOI   AGENCY  FO#     ROUTE
                                          ADD
1          FDC MAIN 3/11                A                         PD via COFB
```

```
2          FDC FWD 3/11                B                        PD via COFB
3          FO 71 A CO_                                   11     PI via FDC MAIN 2/11
4          FO 72 B CO___                                 12     PI via FDC MAIN 3/11
5          FO 73 C CO __                                 13     PI via FDC MAIN 3/11
6          FDC I 3/11                                           PI via FDC MAIN 3/11
7          FO 74 E CO_                                   14     PI via FDC MAIN 3/11
8          FO 75 F CO__                                  15     PI via FDC MAIN 3/11
9          FO 76 G CO _                                  16     PI via FDC MAIN 3/11
10          FDC K 1/11                                           PI via FDC MAIN 3/11
11          FO 77 H CO_                 E                 17     PD via COFB
12                                                               SI via FDC MAIN 3/11
13          FO 78 I CO___               F                 18     PD via COFB
14                                                               SI via FDC MAIN 3/11
15          FO 79 K CO __               G                 19     PD via COFB
16                                                               SI via FDC MAIN 3/11
17          BCS L 3/11                  J                        PD via BTRY WIRE net

LINE #     OWN NAME           NET   PROTOCOL    NET ACCESS  PHY  MOI   RANK
                                                             ADD  ADD
1       FDC MAIN 5/11       RFD   VMF         ADAPTIVE     10
2       FDC MAIN 5/11       COFA  TACFIRE     2_/4_/4_/6_  A   N/A
3       FDC MAIN 5/11       COFB  TACFIRE     2_/4_/4_/6_  A   N/A

LINE #       STATION NAME        DEVICE  ADD  MOI   AGENCY   FO#    ROUTE
                                             ADD
1           FDC FWD 5/11                11                       PD via RFD net
2           FDC MAIN 11MAR              02                       PD via RFD net
3           FDC FWD 11MAR               03                       PD via RFD net
4           FDC MAIN 1/11               04                       PD via RFD net
5           FDC FWD 1/11                05                       PD via RFD net
6           FDC MAIN 2/11               06                       PD via RFD net
7           FDC FWD 2/11                07                       PD via RFD net
8           FDC MAIN 3/11               08                       PD via RFD net
9           FDC FWD 3/11                09                       PD via RFD net
10           FDC Q 5/11                   I                       PD via COFA
11           FDC R 5/11                   0                       PD via COFA
12           FDC S 5/11                   I                       PD via COFB

LINE #     OWN NAME           NET   PROTOCOL    NET ACCESS  PHY  MOI   RANK
                                                             ADD  ADD
1       FDC Q 5/11          COFA   TACFIRE     1/3/3/5     I   N/A
2       FDC Q 5/11      BRTY WIRE  TACFIRE     1/1/1/1     J   N/A

LINE #       STATION NAME        DEVICE  ADD  MOI   AGENCY   FO#    ROUTE
                                             ADD
1          FDC MAIN 5/11                A                        PD via COFA
2          FDC FWD 5/11                 B                        PD via COFA
3          FDC R 3/11                   0                        PD via COFA
4          FDC S 3/11                                            PI via FDC MAIN 2/11
5          BCS Q 3/11                   J                        PD via BTRY WIRE net

LINE #     OWN NAME           NET   PROTOCOL    NET ACCESS  PHY  MOI   RANK
                                                             ADD  ADD
1       FDC R 5/11          COFA   TACFIRE     1/3/3/5     0   N/A
2       FDC R 5/11      BRTY WIRE  TACFIRE     1/1/1/1     0   N/A

LINE #       STATION NAME        DEVICE  ADD  MOI   AGENCY   FO#    ROUTE
                                             ADD
1          FDC MAIN 5/11                A                        PD via COFA
2          FDC FWD 5/11                 B                        PD via COFA
3          FDC Q 5/11                   I                        PD via COFA
4          FDC S 5/11                                            PI via FDC MAIN 5/11
5          BCS R 5/11                   1                        PD via BTRY WIRE net

LINE #     OWN NAME           NET   PROTOCOL    NET ACCESS  PHY  MOI   RANK
                                                             ADD  ADD
```

1	FDC S 5/11	COFB	TACFIRE	1/3/3/5	0	N/A
2	FDC S 5/11	BRTY WIRE	TACFIRE	1/1/1/1	0	N/A

LINE #	STATION NAME	DEVICE	ADD	MOI ADD	AGENCY	FO#	ROUTE
1	FDC MAIN 5/11		A				PD via COFB
2	FDC FWD 5/11		B				PD via COFB
3	FDC Q 5/11						PI via FDC MAIN 5/11
4	FDC R 5/11						PI via FDC MAIN 5/11
5	BCS S 5/11		J				PD via BTRY WIRE net

APPENDIX D

EXAMPLE AUTOMATED FIRE SUPPORT SOP

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DivO P3120
G-3
24 JUL 97

1.DIVISION ORDER P3120

1.From: Commanding General, 1st Marine Division
2.To: Distribution List

1.Subj: 1st MARINE DIVISION AUTOMATED FIRE SUPPORT STANDARD OPERATING PROCEDURES.

1.Ref: (a) FMFM 6-9 Marine Artillery Support
2. (b) FMFM 6-18 Techniques and Procedures for Fire Support
3. Coordination
4. (c) FMFM 6-18-1 Techniques and Procedures for MCFSS
5. (d) TC 6-40A Field Artillery Automated Cannon Gunnery.
6. (e) ST 6-1-1 Lightweight Tactical Fire Direction System
7. (LTACFIRE) Operations
8. (f) ST 6-40-30 Battery Computer System Job Aids
9. (g) TM 11-7440-283-12-1-1-1&2 Cannon Battery Computer
10. System
11. (h) TM 11-5840-354-10 Operators Manual for RADAR set
12. AN/TPQ-36
13. (i) TM 08625A-10/1-1&2 Meteorological Data System
14. AN/TMQ-31

1.Encl: (1) Locator Sheet

1.1. **Purpose**. To implement standard procedures and techniques in the use of automated fire direction and fire support coordination within the 1st Marine Division.

1.2. **General**. Standard entries are required to allow the digital fire support systems to communicate and to avoid confusion during the processing of information. This standardization requires a much greater degree of precision than most voice/manual operations. The basis for this SOP is the AFATDS Techniques and Procedures Manual (TPM). Strict adherence to the procedures established in the TPM and this SOP are paramount to our success in the digital arena. Commanding Officers and staff section Officers-in-charge will use this SOP as a basis for the operation of their digital devices.

1.3. **Cancellation**. None.

1.4. **Summary of Revisions**. This manual contains significant changes over past operating procedures and must be completely reviewed.

1.5. **Action.** This SOP is effective upon receipt. Commanding Officers and staff section Officers-in-charge will use this SOP as a basis for the operation of their digital devices. This SOP will be present and readily available at all centers using automated/digital devices in the 1st Marine Division.

1.6. **Certification.** Reviewed and approved this date.

1. L. L. MIKE-FOX

1.Distribution: A

1ST MARINE DIVISION AUTOMATED SOP

RECORD OF CHANGES

Log completed change action as indicated.

1.

1.Change 2.Number	Date of Change	Date Received	Date Entered	Signature of Person Entering Change
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				

1.

DivO P3120
24 Sep 97
LOCATOR SHEET

1.Subj: 1st Marine Division Automated Fire Support SOP

1.Location:
2. (Indicate the location(s) of the copy(ies) of this SOP)

ENCLOSURE (1)

CHAPTER 1
SOP SCOPE

1. **PURPOSE.** The purpose of this draft SOP is to combine the techniques and procedures defined in FMFM 6-18-1, Techniques and Procedure for MCFSS and those in draft MCWP 3-1.6.7, Techniques and Procedures for AFATDS. Because AFATDS is the objective system of the Marine Corps' effort to automate all fire support command and control, MCWP 3-1.6.7 is focused on a future warfighting environment when AFATDS is the only system existing in the fire support arena. Until this time it will be necessary for units to possess and operate with a combination of IFSAS and BCS equipment and AFATDS.

2. **SCOPE.** This SOP applies to all units that must interface the currently fielded equipment of MCFSS with the AFATDS. Techniques provided here modify those provided in both the FMFM 6-18-1 and MCWP 3-1.6.7.

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CHAPTER 2

COMMUNICATIONS

1. **GENERAL.** AFATDS, combined with SINCGARS, provides a significant improvement over previous TACFIRE protocol MCFSS devices by use of variable message format (VMF) protocol. However, it is necessary to consider the fact that less capable devices will be netted with AFATDS. This chapter addresses necessary changes to the communications structure to support both AFATDS and MCFSS devices.

2. **NETWORKS.** Table SOP 2-1 dictates the required protocols and data rates necessary to enable data fire support networks to operate with a mix of MCFSS and AFATDS equipment.

Table SOP 2-1, NETWORK PROTOCOLS

NETWORK	STATIONS	PROTOCOL	DATA RATE	DATA ENCODING
MAGTF FFC	MAGTF FFCC DIV FSCC	VMF	16K/4800/2400 16K/4800/2400	NRZ/NRZ/NRZ NRZ/NRZ/NRZ
DIV FSC	DIV FSCC REGT FSCCs REGT FDC	TACFIRE	16K/4800/2400 16K/4800/2400/ 1200 16K/4800/2400/ 1200	NRZ/NRZ/NRZ NRZ/NRZ/NRZ/ FSK NRZ/NRZ/NRZ/ FSK
ARTY REGT FD	ARTY REGT FDC ARTY BN FDCs	TACFIRE	16K/4800/2400/ 1200 16K/4800/2400/ 1200	NRZ/NRZ/NRZ/ FSK NRZ/NRZ/NRZ/ FSK
COF NETS	BN FSCC ARTY BTRY FDCs FOs	TACFIRE	16K/4800/2400/ 1200	NRZ/NRZ/NRZ/ FSK
ARTY BN FD	ARTY BN FDC ARTY BTRY FDC	VMF	16K/4800/2400/ 1200	NRZ/NRZ/NRZ/ FSK
BTRY WIRE	ARTY BTRY AFATDS ARTY BTRY BCS	TACFIRE	600/1200/16k 32k 600/1200	FSK/FSK/NRZ CDP FSK/FSK

1. **COMMUNICATIONS SECURITY.** Actual security or encryption of networks is dictated by the communications plan. Software settings at all IFSAS devices will indicate secure nets to allow these devices to employ serialization. This is especially important at the BCS.

2. **DEVICE SPECIFIC CONCERNS.**

A. **AFATDS.**

(1) TACFIRE nets operated at AFATDS will use serialization for transmitted messages only (This is default). This will prevent AFATDS from returning a NAK to the MCFSS device.

(2) All AFATDS stations require a communications route to the TPC. This allows the routing of TARGET INDICATORS.

(3) Due to the fact that an AFU:UPDATE or FM;OBCO sent from a TACFIRE type device (BCS, IFSAS, DMS, Q36) does not contain all the data required for AFATDS to build that unit's data, that unit must be initially keypunched in at the AFATDS. After that unit is built and has a unit icon displayed, an AFU;UPDATE or FM;OBCO message will update it's unit data.

(4) Communications are limited to freetext messages until unit data is built for that unit.

B. **IFSAS.** IFSAS computers that communicate with AFATDS will make all messages legal for the AFATDS station and change all message classifications to UNCLASSIFIED in the PCLD file.

C. **BCS/FDS** stations will change the classification of messages transmitted to UN in the C: field of the communications line prior to transmitting.

D. **DMS** equipped stations do not require a code file for AFATDS stations with which the DMS communicates. The AFATDS ignore received serialization by default.

1. **DATA DISTRIBUTION AND MOI STRUCTURE.**

A. **AFATDS.** Data distribution is established as per chapter 6 of AFATDS TECHNIQUES AND PROCEDURES. Additional procedures are required.

(1) **Unit data distribution to IFSAS.** IFSAS cannot store a complete AFATDS unit data record. IFSAS can store artillery, NSFS, mortar fire unit data, radar and observer unit data. Subordinate IFSAS FSCCs require unit data of fire support assets that support their command unit. This is distributed to IFSAS stations by transmitting the location of the fire units via freetext message. The IFSAS station builds the unit data and assigns a 6400 mil traverse to these units and allows azimuth of lay and ranges to default. After building the unit data, the IFSAS station indicates it is ready to receive ammunition. The AFATDS station then transmits the AMMO DETAILED data to that station to establish an ammunition count. ***WARNING: THESE PROCEDURES ARE DESIGNED TO ALLOW A SUBORDINATE FSCC TO TRANSMIT AN UNSUPPORTABLE MISSION TO THE SUPPORTED FSCC***

WITHOUT TRANSMITTING AN FM;CFF:X AS A REQUEST FOR FIRES ***(see Appendix D, Chapter 3-2 para. 3B.).***

(2) **DATA REQUESTS TO IFSAS.** AFATDS uses the request status message to query other AFATDS systems for unit data. The IFSAS computer does not understand this message, however, this data may be obtained from the IFSAS computer by transmitting one of various command (COMD) messages to the IFSAS. SPRT;COMD causes the IFSAS to return all or specified geometry; AFU;COMD message returns all or specified fire unit data. These messages are available to the AFATDS operator by selecting ALERTS & MESSAGES, MESSAGES.

B. **IFSAS.** IFSAS equipped stations use the MOI setup described in FMFM 6-18-1, MCFSS TECHNIQUES AND PROCEDURES changed as described here.

(1) **Standing requests for information (SRIs).** SRIs are not transmitted to AFATDS stations. Instead, requests must be transmitted as SYS;PTMs and specific targets or lists are returned by the AFATDS operators.

(2) **GEOMETRIES.**

(a) **Air space coordination area (ACA).** ACAs are stored at AFATDS as circular, linear or rectangular geometries. IFSAS only stores linear measures. All other shapes are received as alerts and must be printed and plotted on a map.

(b) **Chemically Contaminated Areas (CCA).** CCAs are stored in IFSAS as irregular geometries of 3 to 5 points. CCAs received with more points produce an alert and must be printed and plotted.

(c) **No Fire Areas (NFA)** cannot be transmitted to IFSAS due to the fact that IFSAS does not recognize NFAs. These geometries must be sent down as freetext messages.

Table 2-2 depicts problems when transmitting from or to a TACFIRE type device from or to an AFATDS.

MESSAGE	AFATDS TO IFSAS	IFSAS TO AFATDS	AFATDS TO BCS
AFU;AMSS			
AFU;OPSTAT			
AFU;UPDATE	AFATDS will not transmit AFU;UPDATES to IFSAS computers. IFSAS is not capable of receiving unit data from AFATDS.	Unit data must be previously entered for sucessful reception. Min. and max. rgs. do not update	
AFU;AMMO			

FM;CFF:R	Received at IFSAS any time OTF is transmitted.	Received as FM;CFF;X, do not send.	
FM;CFF:X		Recoginized as a fire mission denial.	
NNFP;XSCD		PLAN field has first six spaces of sender logical name inserted.	
NNFP;XTGT		PLAN field has first six spaces of sender logical name inserted.	
AFATDS MSGS			
AIR CORRIDOR	If two points then SPRT;BEGEOM;ACA is received. If more than two points , alert at AFATDS indicating END SYSTEM will accept only two points.		
ATI ZONE	Alert at AFATDS "INVALID GEOMETRY TYPE FOR DEVICE".		
CALL FOR FIRE ZONE	Alert at AFATDS "INVALID GEOMETRY TYPE FOR DEVICE".		

AFATDS MSGS	AFATDS TO IFSAS	IFSAS TO AFATDS	AFATDS TO BCS
CHEM CONTAMINATED AREA	Received as SPRT;BGEM;CHA. If more than 5 points, AFATDS produces alert when attempt to transmit:"INCORREC T VALUE FOR FIELD-# COORDINATE POINTS".		
COORDINATE FIRE LINE	SPRT;BGEOM:CFL is recieved.		
CSR GUIDANCE	Cannot send-nothing happens when attepting.		

FA ATTACK METHODS	Received at IFSAS as FM;ATTACK messages. Shell/Fuze is not transmitted.		
FA RESTRICTIONS	Caused alert indicating guidance received and ready to preview at AFATDS???		
FA SYSTEM PREFERENCE TABLE	Cannot send-nothing happens when attempted.		
FIRE SUPPORT AREA	Alert at AFATDS "INVALID GEOMETRY TYPE FOR DEVICE".		
FIRE SUPPORT COORDINATION LINE	Received as SPRT;BGEOM:FSCL.		
FIRE SUPPORT STATION	Alert at AFATDS"INVALID GEOMETRY FOR DEVICE".		
MESSAGES-ATI CBTI	Receives ATI;CBTI		
MESSAGES-ATI;CDR	Receives ATI;CDR(note:transmitting this message does not store a target at AFATDS)		
MESSAGES-FSE NBC1NU	Receives FSE;NBC1NU.		
MESSAGES-SPRT; AMMODAT	Receives SPRT; AMMODAT.	Receives and processes, stores in database.	
AFATDS MSGS	AFATDS TO IFSAS	IFSAS TO AFATDS	AFATDS TO BCS
MESSAGES-SPRT; DATUM	Allows AFATDS to select a unit ID from among units stored in DB. Sends the unit location and datum.		
MESSAGES-SPRT; EFFDAT	Receives SPRT; EFFDAT.	Receives and processes, stores in database.	
MESSAGES-SPRT; RGERR	Receives SPRT; RGERR.	Receives and processes, stores in database.	

MESSAGES-SPRT; TEDE	Receives SPRT; TEDE.		
MISSION FIRED REPORT	Receives AFU;MFR.		
ONCALL, INACTIVE or PLANNED TGT LIST	Sends NNFP;FPTU with plan name ONCALL, INACTV or PLANNED for each target. All targets are transmitted at one time.		
FIRE PLAN	Received as FPTGT; shells assigned to targets are lost.	Received anytime an FPLST or TISF is transmitted.	
OTF/FO	Received as FM;CFF:R		
PLAN TEXT	Nothing happens when attempt is made to send data except alert indicating plan transfer is complete at AFATDS.		
REQUEST STATUS	Produces alert at AFATDS indicating inability to send this message to non-AFATDS units.		
RESTRICTED FIRE LINE	Receives SPRT;BGEOM:RFA.		
SNED STATUS-AMMO SUMMARY	Nothing happens when attempt is made to send data.		

AFATDS MSGS	AFATDS TO IFSAS	IFSAS TO AFATDS	AFATDS TO BCS

SEND STATUS-BASIC UNIT INFO	Cannot be transmitted to IFSAS for any unit type except OBS, RADAR. If no route for the unit exists at the sending AFATDS, then the qbserver number transmitted 00 yielding an alert"RANGE VIOLATION" at IFSAS. Transmitting all other units types produces an alert at AFATDS "CANNOT GENERATE INTERFACE".		
SEND STATUS-DETAILED AMMO SUMMARY	Sends AFU;UPDATES and AFU;AMOL with quanity based on critical threshold percent multiplied by ammo quantity on hand.		
SEND STATUS-EQUIPMENT	Produces an alert at AFATDS "CANNOT GENERATE INTERFACE".		
SEND STATUS-GENERAL UNIT INFO	Produces an alert at AFATDS "CANNOT GENERATE INTERFACE".		
SEND STATUS-DETAILED WEAPONS	Produces an alert AFATDS "CANNOT GENERATE INTERFACE".		
SEND STATUS-WEAPON SUMMARY	Produces an alert AFATDS "CANNOT GENERATE INTERFACE".		
SEND STATUS-POL	Cannot be transmitted.		
SOF	Received as TISF; fire unit volleys displays 0 and defualt fuzes are stored.	Received when a TISF is transmitted to AFATDS. Fire plan name is first six characters of IFSAS TACFIRE alias.	

AFATDS MSGS	AFATDS TO IFSAS	IFSAS TO AFATDS	AFATDS TO BCS
SUSPECT TARGET LIST	Cannot be transmitted.		
TARGET MANAGEMENT MATRIX	Produces alert"MISSING MANDATORY FIELD(S)-TARGET INFORMATION LIST.		
TARGET LIST FROM PLAN	RECEIVES NNFP;FPTU with plan name as indicated in the BASIC PLAN INFO window. Transmission will fail if no PLAN ALIAS is entered in BASIC PLAN INFO.		
TRANSFER PLAN	Only those parts of the plan that IFSAS can receive are transmitted. All others are listed as medium level alerts at AFATDS. If plan alias is not entered in BASIC PLAN INFO all plan fields are blank when received at IFSAS.		
ZOR	Received as SPRT;ZNE.		
DCT MSGS			

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CHAPTER 3

SYSTEM INITIALIZATION

1. **GENERAL.** Specific changes to system initialization and data base are required to allow the different automated systems of I MEF to inter-operate. These changes are addressed in this chapter by device.

2. **AFATDS.** Some AFATDS information must be present to ease inter-operability with IFSAS. The following set changes are directed.

A. **FA ATTACK METHODS.** IFSAS and AFATDS both treat targets as either volleys or effects targets during mission processing. However, both systems are not in agreement as to which targets can be processed as effects targets. To preclude transmitting a fire mission to an IFSAS computer with effects specified for a target type that IFSAS will only process as a volleys target, the following target types must be specified as volleys targets in the FA METHOD OF ATTACK. When disseminating FA ATTACK METHODS to IFSAS they are transmitted by selecting SEND CATEGORY vice SEND. This will send all guidance for all types of targets in that category, avoiding tying up the net. The SEND option is for transmitting to another AFATDS.

IFSAS	AFATDS/IFSAS
(1) AMMUNITION DUMP	(1) LOC/DEFILE
(2) ANTITANK GUN	(2) HILL
(3) ARTY, HVY	(3) LANDING STRIP
(4) ARTY, UNK	(4) RAILROAD SEGMENT
(5) BRIDGE, FOOT PONTOON	(5) ROAD JUNCTION
(6) BRIDGE, FOOTBRIDGE RAFT	(6) ROAD SEGMENT
(7) BUNKER	(7) TERRAIN FEATURE
(8) CHEM. PRODUCTION FACILITY	(8) BRIDGE VEH/CONC
(9) FERRY, BRIDGE	(9) BRIDGE VEH/WOOD

(10) MG, HVY (10) BRIDGE VEH/STEEL
(11) MG. LT. (11) BRIDGE SITE
(12) MORTAR, HVY (12) ENGINEER/BLDG CONC.
(13) MORTAR, LIGHT (13) BLDG. UNK
(14) MORTAR, UNK (14) BLDG. MASONRY
(15) MORTAR, VERY HVY (15) BLDG. SPEC PURPOSE
(16) PETROL PRODUCTION DUMP (16) BLDG. METAL
(17) PILLBOX (17) BLDG. WOOD
(18) RECOILLESS RIFLE
(19) SUPPLY DUMP, CLASS I
(20) SUPPLY DUMP, CLASS II
(21) SUPPLY DUMP, UNK
(22) WEAPON, CREW SERVED
(23) PERSONNEL TARGET (with degrees of protection COVERED & PRONE and PRONE.)

1. **IFSAS.** Initial Fire Support Automated System (IFSAS) initialization complies with the directives established in FMFM 6-18-1 TECHNIQUES AND PROCEDURES FOR MARINE CORPS AUTOMATED FIRE SUPPORT SYSTEM (MCFSS) except where directed otherwise in this SOP.

A. **DATA BASE.** The data base stored at IFSAS contains all fire units and observers that support the station and its parent command and supported units.

B. **GUIDANCE.**

(1) **FM;FUSEL.** At each IFSAS station all fire support units that support that station's supported unit are ordered under the logical name of the supported unit using the FM;FUSEL message. For example, an IFSAS equipped battalion FSCC supports the regimental FSCC (See TABLE 4-1, page 4-1 of Chapter 4). The supported regimental FSCC has an artillery battalion in direct support and an artillery battalion reinforcing the DS battalion's fires. The IFSAS battalion FSCC stores all fire units of the two battalions and orders these under the logical name of the regimental FSCC. This procedure precludes an FM;CFF:X being generated (See Appendix D, Chap.7)

(2) **FM:MOD.** When a priority type, priority zone, or priority shell are entered in an IFSAS MOD FILE, and a priority mission is generated as a result, the only effect on an IFSAS computer is to annotate the mission as priority. However, a priority mission received at AFATDS has a different meaning. For example, if a fire request is received and processed at an IFSAS Battalion FSCC, generating a priority TGT, and the Bn's mortars are unable to defeat the target, a CFF is generated for transmission to the Regt FSCC by virtue of Bn's FUSEL. This mission is received at Regt as a (Precedence) priority mission (reserved for FPFs, priority copperheads or priority targets in AFATDS) precluding the attack by air. In addition this overrides AFATDS' method of assigning precedence to targets. IFSAS units DO NOT make any entries into the PRI ZONE and the PRI TGT fields of the FM;MOD. Also, Copperhead is the only allowable PRI SHELL entry.

1. **BCS.** BCS is initialized as per ST 6-40-1 BCS JOB AIDS. The following specific entries are made.

A. **RPTAMMO field.** The RPTAMMO field of the BCS;SETUP message is entered with the logical name of the battery AFATDS. This allows ammunition updates to be transmitted to the AFATDS and then to be pushed into data distribution.

B. **RANGE limits.** The minimum and maximum ranges are not changed at AFATDS based on data received in the AFU;UPDATE from the BCS. The battery AFATDS operator ensures the correct maximum ranges are entered in the battery's DETAILED UNIT INFO window. These must be based on the ammunition available. *Do not use the default maximum ranges unless these accurately reflect the units capabilities.*

C. **AMMUNITION REPORTING.** AFATDS does not store the same ammunition set that BCS stores. Prior to reporting ammunition on hand the BCS operator must make the following changes:

(1) Display the AFU;AMMO message at the BCS.

(2) Change SMD to SMC and PDE to PDAD.

(3) Without entering these changes, transmit the messages.

(4) Failure to follow these procedures will result in the alert TF_AFU_UPDATE MESSAGE RECEIVED, TRANSLATION ERROR. The changes will prevent this. **FIREFINDER RADAR.** As per appropriate TM.

1. **MDS/MMS.** As per appropriate TM.

2. **DMS.** The DMS is initialized as FIST:YES or FIST:NO with the supported unit as the default destination.

CHAPTER 4

COMMAND-SUPPORTED RELATIONSHIPS AND CONOPS

1. **COMMAND AND SUPPORTED RELATIONSHIPS.** As per Chapter 4, MCWP 3-1.6.7.

1. **CONOPS.** Because of the limited number of AFATDS computers available to the 1st Marine Division special procedures are required for CONOPS.

A. Table 4-1 provides the relationships.

Table 4-1, CONOPS BACKUPS

OPFAC	PRIMARY BACK-UP	SECONDARY BACK-UP
DIVISION FSCC	DIVISION FSCC FWD	MEF FFCC
REGT FSCC	DS BN FDC	
DS BN FDC	Supported FSCC	
BN FSCC	BN FSCC FWD	REGT FSCC

B. **Execution of CONOPS**. CONOPS is executed as per Chapter 4, MCWP 3-1.6.7 and Draft Equipment Publications (DEPs).

(1) **PLANNED CONOPS.** Stations that are backed up by an OPFAC other than their forward will provide a jump or liaison team to the back-up.

(2) **UNPLANNED CONOPS**. Unplanned CONOPS will be executed for any station when:

(a) that station can not be contacted by any other station for 10 minutes,

(b) that station reports catastrophic failure of automated equipment and cannot conduct planned CONOPS,

(c) at the direction of the commanding officer of the unit to be backed up.

C. **CONOPS WITH AFATDS SATELLITES.** IFSAS stations do not possess an inherent CONOPS function. Instead, the IFSAS SATELLITE performs the following:

(1) **PLANNED CONOPS**.

(a) Change net settings and subscriber data as directed by the backup.

1) Delete all MOI files for the principal and re-enter these to direct the same information to the backup.

(b) Re-FUSEL all units previously FUSELed under the principal, under the backup.

(2) **UNPLANNED CONOPS.**

(a) When directed to enter CONOPS, creates an FM;CENTER file by ordering all organic fire units under the BACKUP'S logical name.

(b) Orders all other fire units that were ordered under the principal, under the backup.

(c) Recalculates each active mission to cause the generation of fire mission chains with FM;CFF messages directed to the backup.

1) Select SELECT FUNCTION, FIRE MISSION, CFF, RECALC and select the target number. Select ACTION, ENTER.

2) A fire mission chain is placed in the PRIORITY QUEUE. Press ALT, F1 to view the contents of the queue.

3) Select the fire mission from the queue and transmit the FM;CFF to the backup.

4) In this fashion each individual fire mission from the active file is transmitted.

(d) Notify the backup when all active targets have been transmitted.

(3) **The BACKUP:**

(a) Directs the required changes to comm and MOI files to the IFSAS station.

(b) After entering CONOPS, examines the CONOPS RESPONSE window. When all AFATDS stations have responded, click 1 on CONTINUE to merge the target lists. This is necessary since the IFSAS satellites will not respond to the query.

CHAPTER 5

SOP INFORMATION DISTRIBUTION

1. **GENERAL.** Information distribution provides the maintenance of a common data base at all systems. This distribution is created and maintained by creating the message of interest (MOI) files and standing requests for information (SRIs) at the IFSAS computers and a combination of data distribution, met distribution and received message setup at AFATDS computers.

1. AFATDS.

A.**DATA DISTRIBUTION.** As per chapter 6, AFATDS TECHNIQUES AND PROCEDURES .

B.**RECEIVED MESSAGE SETUP.** As per Chapter 3, table 3-1 of MCWP 3-1.6.7.

1. IFSAS.

A. **MOI SETUP.**

(1) **Battalion FSCC.** As per Chapter 2, FMFM 6-18-1.

(2) **Regimental FSCC.** As per Chapter 2, FMFM 6-18-1 except MOI for ATI;CDR and ATI;AZR to division FSCC is deleted. MOI for ATI;SHR is established for the regimental FDC.

(3) **DS BN FDC.** As per Chapter 2, FMFM 6-18-1.

(4) **R BN FDC.** As per Chapter 2, FMFM 6-18-1.

(5) **GSR BN FDC.** As per Chapter 2, FMFM 6-18-1.

(6) **GS BN FDC.** As per Chapter 2, FMFM 6-18-1.

(7) **REGIMENTAL FDC.** As per Chapter 2, FMFM 6-18-1 except MOI for ATI;CDR and ATI;AZR to division FSCC is deleted.

(8) **TPC.** As per Chapter 2, FMFM 6-18-1.

(9) **DIVISION FSCC.** As per Chapter 2, FMFM 6-18-1.

(10) **MAGTF FFCC.** As per Chapter 2, FMFM 6-18-1.

B.**STANDING REQUESTS FOR INFORMATION.** The SRI structure defined in Chapter 2, FMFM 6-18-1 except for the following.

(1) **REGIMENTAL FSCC.** Delete SRI to division FSCC.

(2) **REGIMENTAL FDC.** Delete three SRIs to division FSCC for EQUIP/RADAR, SUPPLY/AMMO and PERS/OP. (If IFSAS)

(3) **TPC.** Delete three SRIs to division FSCC for ARTY, MORT and RKTMSL. (If IFSAS)

1. **BCS.** All data distributed by the BCS is accomplished by manual transmission.

1. **FIREFINDER RADAR.** All data distributed by the radar is accomplished by manual transmission.

1. **MDS/MMS.** All data distributed by the MDS/MMS is accomplished by manual transmission.

1. **DMS.** All data distributed by the DMS is accomplished by manual transmission.

CHAPTER 6

PLAN SOP GUIDANCE

1. GENERAL. This chapter provides operator entered values for all guidance criteria. These values are genaric, and when implemented, form a base or starting point. During actual operations, only the necessary changes to these values will be published in the operations order. By utilizing plan SOP in this manner the need for massive database entry is kept to a minimum.

A. Storage. The guidance information contained herein is stored in PLAN SOP.

B. Target selection standards (TSS). The following values were determined with the intention of fire requests not being checked against TSS.

CAT/TYPE	MAX TLE	MAX RPT AGE	CAT/TYPE	MAX TLE	MAX RPT AGE
C-3			**MANEUVER CON.**		
CP, BN	200	480	APC	100	30
CP, DIV	400	1200	ARMORED VEH	100	30
CP, FWD	100	180	AA, MECH/TRP	200	120
CP, REGT	200	720	AA, TRPS	200	120
CP, SMALL	100	180	AA, TPR/ARM	200	120
CP, UNK	100	180	AA, TRP/VEH	200	120
GUID EQUIP	100	120	AA, UNK	200	120
NAV. AIDS	100	120	INFANTRY	100	60
FS			MG, HVY	100	60
ARTY HEAVY	100	90	MG, LIGHT	100	30
ARTY LIGHT	100	60	OP	100	120
ARTY MEDIUM	100	75	PATROL	100	30
ARTY TOWED	100	75	REC. RIFLE	100	60
ARTY UNK	100	60	TANK, HVY	100	60
MISSILE HVY	100	120	TANK, LIGHT	100	30
MISSILE LT	100	45	TANK, MED.	100	30
MISSILE MDM	100	90	WORK PARTY	100	60
MORT HVY	100	60	WEAPON, CS	100	30
MORT LT	100	60	ADA		
MORT MDM	100	60	HEAVY	100	120
MORT VHVY	100	60	LIGHT	100	60
MORT UNK	100	60	MEDIUM	100	60

CAT/TYPE	MAX TLE	MAX RPT AGE	CAT/TYPE	MAX TLE	MAX RPT AGE
RKTMSL APER	100	30	MISSILE	100	60
RKTMSL ATK	100	30	POSITION	100	120
RKTMSL POS	100	60	UNKNOWN	100	120
RKTMSL UNK	100	60	ENGINEER		
MANEUVER			BRDG FT PON	100	240
GUN AT	100	30	BRDG VEH PON	100	720
ENGINEER			MAINTENANCE		
BRDG FT RAFT	100	120	SUPPLY CL1	200	180
BLDG CONC	400	9999	SUPPLY CL2	200	180
BLDG, UNK	400	9999	SUPPLY CL3	200	180
BLDG MASONRY	400	9999	LIFT		
BLDG SPEC PURP	400	9999	BOAT	80	60
BLDG METAL	400	9999	FERRY, BRDG	100	60
BLDG WOOD	400	9999	HEL, ATTACK	100	30
BUNKER	100	720	HEL, CARGO	100	30
PILLBOX	100	720	HEL, OBSER	100	30
RSTA			VEH, HVY WHL	100	30
CBR	80	60	VEH, LT WHL	100	30
CMR	80	60	VEH, UTILITY	100	30
DF RADAR	80	60	AIRCRAFT	100	60
GND SRV RADAR	80	60	LOC		
SRCH LIGHT	80	30	DEFILE	200	9999
VEH RECON	100	30	HILL	200	9999
REC			LAND STRIP	100	9999
LOUDSPKR EQUIP	80	60	RR SEGMENT	100	9999
EW EQUIP	80	60	ROAD JUNCT	100	9999
NUC/CHEM			ROAD SEG	100	9999
CHEM PLANT	400	2880	TERR FEATURE	100	9999
POL			BRDG VEH CON	100	9999
POL PLANT	400	9999	BRDG, VEH WOOD	100	720
AMMO			BRDG, VEH STEEL	100	720
AMMO DUMP	400	2880	BRDG, SITE	100	720

1. High value target list (HVT) . With the data given below, use the following references: WHEN: I=IMMEDIATE, A=AS ACQUIRED, P=PLAN.

CATEGORY	EFFECT	PERCENT	WHEN	VALUE
C3	NEUTRALIZE	10	A	90
FIRE SUPPORT	NEUTRALIZE	10	A	100
MANEUVER	NEUTRALIZE	10	A	80
ADA	NEUTRALIZE	10	A	85
ENGINEER	NEUTRALIZE	10	A	60
RSTA	SUPPRESS	3	A	95

CATEGORY	EFFECT	PERCENT	WHEN	VALUE
REC	SUPPRESS	3	A	50
NUC/CHEM	NEUTRALIZE	10	A	60
POL	DESTROY	30	A	45
AMMO	DESTROY	30	A	35
MAINTENANCE	DESTROY	3	A	30
LIFT	SUPPRESS	3	A	55
LOC	SUPPRESS	3	A	30

1. Target management matrix (TMM). With the TMM given below, use the following references: HPT: Y=HPT, N=NON-HPT. WHEN: I=IMMEDIATE, A=AS ACQUIRED, P=PLAN. EFFECT: S=SUPPRESS, N=NEUTRALIZE, D=DESTROY. T/I (TDA/IEW): T=TDA required, I=IEW approval required.

CAT/TYPE	HPT?	WHEN	EFF	%	T/I	VALUE	CAT/TYPE	HPT?	WHEN	EFF	%	T/I	VALUE
ADA							FS cont'd						
UNKNOWN	N	A	N	10			RKTMSL POS	N	A	N	10		
LIGHT	N	A	N	10			RKTMSL UNK	N	A	N	10		
MEDIUM	N	A	N	10			C3						
HEAVY	Y	A	N	10	T	75	CP BN	N	A	N	10		
MISSILE	Y	I	N	10	T	95	CP DIV	Y	D	D	30	I	50
POSITION	N	A	N	10			CP FORWARD	N	A	N	10		
FS							CP REGT	N	A	N	10		
ARTY UNK	N	A	N	10			CP SMALL	N	A	N	10		
ARTY LIGHT	N	A	N	10			GUID EQUIP	N	A	N	10		
ARTY MEDIUM	N	A	N	10			NAV AIDS	N	A	N	10		
ARTY HEAVY	Y	A	N	10		85	MANEUVER						
ARTY TOWED	N	A	N	10			GUN AT	N	A	N	10		
FS Cont							MAN Cont						
MISSILE HVY	Y	A	N	10		90	APC	N	A	N	10		
MISSILE MDM	Y	A	N	10		90	VEH ARMOR	N	A	N	10		
MISSILE LT	Y	A	N	10		90	AA MEC TRP	N	A	N	10		
MORT VHVY	N	A	N	10			AA TRPS	N	A	N	10		
MORT MDM	N	A	N	10			AA TPR/ARM	N	A	N	10		
MORT LT	N	A	N	10			AA TRP/VEH	N	A	N	10		
MORT UNK	N	A	N	10			INFANTRY	N	A	N	10		

CAT/TYPE	HPT?	WHEN	EFF	%	T/I	VALUE	CAT/TYPE	HPT?	WHEN	EFF	%	T/I	VALUE
RKTMSL APER	N	A	N	10			MG HVY	N	A	N	10		
RKTMSL ATK	N	A	N	10			MG LT	N	A	N	10		
MAN cont'd							**RSTA cont'd**						
OP	Y	A	N	10		65	GD SURV RDR	N	A	S	3		
PATROL	N	A	N	10			SRCH LIGHT	N	A	S	3		
REC RIFLE	N	A	N	10			VEH RECON	Y	A	S	3		50
TANK HVY	N	A	N	10			NUC/CHEM						
TANK MDM	N	A	N	10			CHEM PLANT	N	A	N	10		
TANK LT	N	A	N	10			POL						
WK PARTY	N	A	N	10			POL PLANT	N	A	D	30		
WPN CREW SR	N	A	N	10			AMMO						
							AMMO DUMP	N	A	D	30		
ENGINEER							MAINTENANCE						
BRDG FT PON	N	A	N	10			SUPPLY CL1	N	A	S	3		
BRDG VEH PON	N	A	N	10			SUPPLY CL2	N	A	S	3		
BRDG FT RAFT	N	A	N	10			SUPPLY CL3	N	A	S	3		
BLDG CONC	N	A	N	10			LIFT						
BLDG MASONRY	N	A	N	10			BOAT	N	A	S	3		
BLDG METAL	N	A	N	10			FERRY BRDG	N	A	S	3		
BLDG SPEC P	N	A	N	10			HELI ATTACK	N	A	S	3		
BLDG UNK	N	A	N	10			HELI CARGO	N	A	S	3		
BLDG WOOD	N	A	N	10			HELI OBSER	N	A	S	3		
BUNKER	N	A	N	10			VEH HVY WHL	N	A	S	3		
PILLBOX	N	A	N	10			VEH LT WHL	N	A	S	3		
REC							VEH UTILITY	N	A	S	3		
LOUDSPKR	N	A	S	3			AIRCRAFT	N	A	S	3		

CAT/TYPE	HPT?	WHEN	EFF	%	T/I	VALUE	CAT/TYPE	HPT?	WHEN	EFF	%	T/I	VALUE
EW EQUIP	N	A	S	3			LOC						
RSTA							DEFILE	N	A	S	3		
CBR	N	A	S	3	I		HILL	N	A	S	3		
CMR	N	A	S	3	I		LAND STRIP	N	A	S	3		
DF RADAR	N	A	S	3	I		RR SEGMENT	N	A				
LOC cont'd							LOC cont'd						
ROAD JUNCT	N	A	S	3			BRDG VEH WD	N	A	S	3		
ROAD SEG	N	A	S	3			BRDG VEH ST	N	A	S	3		
TERR FEATURE	N	A	S	3			BRDG SITE	N	A	S	3		
BRDG VEH CON	N	A	S	3									

1. FA IMMEDIATE ATTACK METHODS.

MISSION	FIRST SHELL/FZ	VOLLEYS	FIRE UNIT SIZE
IMMEDIATE SUPPRESSION	DPICM/TIME	1	BATTERY
IMMEDIATE SMOKE	WP/TI WP2/TI	1	BATTERY

1. FA RESTRICTIONS. FA restrictions vary with the tactical situation and mission. These should be determined prior to each operation and modified as required. The table below provides only recommended maximum volleys as maximum fire units per target, would depend on the number of units supporting your OPFAC.

UNIT ID: Entered with your own name at all OPFACs who intend to mass fires.			
RESTRICTED SHELL	RESTRICTED FUZE	MAX VOLLEYS	MAX FU
NONE	NONE	3	Entered at units supported by artillery. The entry equals the number of batteries in the DS and R battalions. Also can be entered at the Bn. FSCC when it’s mortars are split.

1. TARGET DUPLICATION . The value entered here will only be checked against active targets, or if duplication is checked for manually, in the oncall target list. Target duplication is a miscellaneous guidance and not availiable for entry in a plan.

1. FS SYSTEM BUFFERS . The values entered here are added to a target's size when checked against FSCM violations. This guidance is also a miscellaneous guidance and not availiable for entry in a plan.

8. **TARGET DECAY TIMES**. The times entered in this guidance determine the operational until time and like the rest of the miscellaneous guidances are not entered into a planned situation.

ATTACK METHODS TABLE FOR ARTILLERY AND MORTARS.

	ARTILLERY				MORTAR			
CAT/TYPE	1ST SHL/ 2D SHL	1ST FZ/ 2D FZ	VOL	FU	1ST SHL/ 2D SHL	1ST FZ/ 2D FZ	VOL	FU
ADA								
UNKNOWN	HE	VT	1	BTRY	HE	VT	2	PLT
LIGHT	DPICM	TI	1	BTRY	HE	VT	2	PLT
MEDIUM	DPICM	TI	1	BTRY	HE	VT	2	PLT
HEAVY	DPICM	TI	1	BTRY	HE	VT	3	PLT
MISSILE	DPICM	TI	1	BTRY	HE	VT	3	PLT
POSITION	DPICM	TI	2	BTRY	HE	VT	4	PLT
FS								
ARTY UNK	DPICM	TI	1	BTRY	HE	PD	3	PLT
ARTY LIGHT	DPICM	TI	2	BTRY	HE	PD	5	PLT
ARTY MEDIUM	DPICM	TI	4	BTRY	HE	PD	5	PLT
ARTY HEAVY	DPICM	TI	5	BTRY	HE	PD	5	PLT
ARTY TOWED	DPICM	TI	5	BTRY	HE	PD	3	PLT
MISSILE HVY	HE/WP	VT/PD	3	BTRY	HE	VT	2	PLT
MISSILE MDM	HE/WP	VT/PD	3	BTRY	HE	VT	2	PLT
MISSILE LT	HE/WP	VT/PD	3	BTRY	HE	VT	2	PLT
MORT VHVY	HE	VT	2	BTRY	HE	PD	2	PLT
MORT MDM	HE	VT	2	BTRY	HE	PD	2	PLT
MORT LT	HE	VT	2	BTRY	HE	PD	1	PLT
MORT UNK	HE	VT	2	BTRY	HE	PD	1	PLT
RKTMSL APER	HE	PD	1	BTRY	WP	PD	1	PLT
RKTMSL ATK	HE/WP	PD/PD	2	BTRY	WP	PD	1	PLT
RKTMSL POS	HE	PD	2	BTRY	WP	PD	3	PLT
RKTMSL UNK	HE	PD	2	BTRY	WP	PD	3	PLT
C3								
CP BN	DPICM	TI	4	BTRY	HE	PD	4	PLT
CP DIV	DPICM	TI	3	BN	HE	PD	8	PLT
CP FORWARD	DPICM	TI	2	BN	HE	PD	4	PLT
CP REGT	DPICM	TI	2	BN	HE	PD	5	PLT
CP SMALL	DPICM	TI	1	BTRY	HE	PD	4	PLT
CP UNKNOWN	DPICM	TI	1	BTRY	HE	PD	3	PLT
GUID EQUIP	HE	VT	1	BTRY	HE	PD	1	PLT
NAV AIDS	HE	VT	1	BTRY	WP	PD	1	PLT
MANEUVER								
GUN AT	HE	PD	1	BTRY	HE	VT	1	PLT
APC	DPICM	TI	1	BTRY	WP	PD	2	PLT
VEH ARMOR	DPICM	TI	2	BTRY	WP	PD	2	PLT
AA MECH TRP	DPICM	TI	2	BN	WP	PD	2	PLT
AA TRPS	DPICM	TI	2	BN	HE	PD	5	PLT
AA TPR/ARM	DPICM	TI	2	BN	WP	PD	6	PLT
AA TRP/VEH	DPICM	TI	2	BN	WP	PD	5	PLT
INFANTRY	DPICM	TI	3	BTRY	HE	VT	4	PLT
MG HVY	HE	VT	1	BTRY	HE	VT	1	PLT
MG LT	WP	PD	1	BTRY	HE	VT	1	PLT
OP	WP2	TI	1	BTRY	HE	PD	1	PLT
PATROL	HE	VT	1	BTRY	HE	VT	1	PLT
REC RIFLE	HE	PD	1	BTRY	HE	VT	1	PLT

	ARTILLERY				MORTAR			
CAT/TYPE	1ST SHL/ 2D SHL	1ST FZ/ 2D FZ	VOL	FU	1ST SHL/ 2D SHL	1ST FZ/ 2D FZ	VOL	FU
TANK HVY	SADARM	TI	2	BTRY	WP	PD	5	PLT
TANK MDM	SADARM	TI	2	BTRY	WP	PD	5	PLT
TANK LT	SADARM	TI	2	BTRY	WP	PD	5	PLT
WK PARTY	HE	PD	1	BTRY	HE	VT	1	PLT
WPN CREW SR	HE	PD	1	BTRY	HE	VT	1	PLT
ENGINEER								
BRDG FT PON	HE	VT	2	BTRY	HE	VT	1	PLT
BRDG VEH PON	HE	VT	2	BTRY	HE	VT	1	PLT
BRDG FT RAFT	HE	VT	2	BTRY	HE	PD	2	PLT
BLDG CONC	HE	PD	2	BTRY	HE	PD	2	PLT
BLDG MASONRY	HE	DELAY	2	BTRY	HE	PD	2	PLT
BLDG METAL	HE	PD	2	BTRY	HE	PD	2	PLT
BLDG SPEC P	HE	PD	2	BTRY	HE	PD	2	PLT
BLDG UNK	HE	PD	2	BTRY	HE	PD	2	PLT
BLDG WOOD	WP	PD	2	BTRY	WP	PD	2	PLT
BUNKER	HE	CP	1	BTRY	HE	PD	6	PLT
PILLBOX	HE	DELAY	1	BTRY	HE	PD	4	PLT
REC								
LOUDSPKR	HE	PD	1	BTRY	HE	VT	1	PLT
EW EQUIP	HE	PD	1	BTRY	HE	VT	1	PLT
RSTA								
CBR	HE	PD	2	BTRY	HE	VT	3	PLT
CMR	HE	PD	2	BTRY	HE	VT	3	PLT
DF RADAR	HE	PD	1	BTRY	HE	VT	2	PLT
GD SURV RDR	HE	PD	1	BTRY	HE	PD	2	PLT
SRCH LIGHT	HE	PD	1	BTRY	HE	PD	1	PLT
VEH RECON	DPICM	TI	1	BTRY	HE	PD	3	PLT
NUC/CHEM								
CHEM PLANT	HE/WP	PD/PD	2	BN	HE/WP	PD/PD	5	PLT
POL								
POL PLANT	HE/WP	VT/PD	2	BN	WP	PD	5	PLT
AMMO								
AMMO DUMP	HE/WP	PD/PD	2	BN	HE/WP	PD/PD	5	PLT
MAINTENANCE								
SUPPLY CL1	HE	PD	3	BTRY	HE	PD	3	PLT
SUPPLY CL2	HE	PD	3	BTRY	HE	PD	3	PLT
SUPPLY CL3	HE	PD	3	BTRY	HE	PD	3	PLT
LIFT								
BOAT	HE	VT	1	BTRY	HE	VT	1	PLT
FERRY BRDG	HE	PD	2	BTRY	HE	VT	1	PLT
HELI ATTACK	WP	PD	1	BTRY	HE	VT	1	PLT
HELI CARGO	WP	PD	1	BTRY	HE	VT	1	PLT
HELI OBSER	WP	PD	1	BTRY	HE	VT	1	PLT
VEH HVY WHL	HE	PD	1	BTRY	HE	PD	1	PLT
VEH LT WHL	HE	VT	1	BTRY	HE	PD	1	PLT
VEH UTILITY	HE	VT	1	BTRY	HE	VT	1	PLT
AIRCRAFT	WP	PD	1	BTRY	HE	VT	1	PLT
LOC								

	ARTILLERY				MORTAR			
CAT/TYPE	1ST SHL/ 2D SHL	1ST FZ/ 2D FZ	VOL	FU	1ST SHL/ 2D SHL	1ST FZ/ 2D FZ	VOL	FU
DEFILE	HE	PD	1	BTRY	HE	PD	1	PLT
HILL	HE	PD	1	BTRY	HE	PD	1	PLT
LAND STRIP	HE	DELAY	2	BTRY	HE	PD	1	PLT
RR SEGMENT	HE	DELAY	1	BTRY	HE	PD	1	PLT
BRDG VEH WD	HE	PD	1	BTRY	HE	PD	1	PLT
BRDG VEH ST	HE	PD	1	BTRY	HE	PD	1	PLT
BRDG SITE	HE	PD	1	BTRY	HE	PD	1	PLT
BRDG VEH CONCRETE	HE	PD	1	BTRY	HE	PD	1	PLT
ROAD JUNCT	HE	DELAY	1	BTRY	HE	PD	1	PLT
ROAD SEGMENT	HE	DELAY	1	BTRY	HE	PD	1	PLT
TER FEATURE	HE	PD	1	BTRY	HE	PD	1	PLT

1. ATTACK METHODS TABLE FOR AIR AND NSFS.

	AIR			NSFS (5"54)		
CAT/TYPE	1ST MUNITIONS	2D MUNITIONS	VOL	1ST SHL/ 2D SHL	1ST FZ/ 2D FZ	VOL
ADA						
UNKNOWN	CBU	GP	1	HE		2
LIGHT	CBU	GP	1	HE		2
MEDIUM	CBU	NAPALM	3	HE		2
HEAVY	CBU	NAPALM	3	HE		3
MISSILE	CBU	NAPALM	3	HE		3
POSITION	GP		2	HE		4
FS						
ARTY UNK	CBU	ROCKETS	1	HE		3
ARTY LIGHT	CBU	ROCKETS	2	HE		5
ARTY MEDIUM	CBU	ROCKETS	4	HE		5
ARTY HEAVY	CBU		5	HE		5
ARTY TOWED	CBU		5	HE		3
MISSILE HVY	GP		3	HE		2
MISSILE MDM	GP		3	HE		2
MISSILE LT	GP		3	HE		2
MORT VHVY	ROCKETS		4	HE		2
MORT MDM	ROCKETS		3	HE		2
MORT LT	ROCKETS		2	HE		1
MORT UNK	ROCKETS		2	HE		1
RKTMSL APER	CBU		2	WP		1
RKTMSL ATK	CBU		2	WP		1
RKTMSL POS				WP		3
RKTMSL UNK				WP		3
C3						

	AIR			NSFS (5"54)		
CAT/TYPE	1ST MUNITIONS	2D MUNITIONS	VOL	1ST SHL/ 2D SHL	1ST FZ/ 2D FZ	VOL
CP BN	CBU		4	HE		4
CP DIV	GUIDED MSL		3	HE		8
CP FORWARD	CBU		3	HE		4
CP REGT	CBU		3	HE		5
CP SMALL	GP		2	HE		4
CP UNKNOWN	GP		2	HE		3
GUID EQUIP	GUIDED MSL		1	HE		1
NAV AIDS	GUIDED MSL		1	WP		1
MANEUVER						
GUN AT	CBU		2	HE		1
APC	CBU	GP	3	WP		2
VEH ARMOR	CBU	GP	4	WP		2
AA MECH TRP	CBU	ROCKETS	6	WP		2
AA TRPS	CBU	ROCKETS	6	HE		5
AA TPR/ARM	CBU		6	WP		6
AA TRP/VEH	CBU		6	WP		5
INFANTRY	CBU		4	HE		4
MG HVY	ROCKETS		2	HE		1
MG LT	ROCKETS		2	HE		1
OP	GP	ROCKETS	1	HE		1
PATROL	CBU		1	HE		1
REC RIFLE	ROCKETS		1	HE		1
TANK HVY	GP		3	WP		5
TANK MDM	GP		3	WP		5
TANK LT	GP		3	WP		5
WK PARTY				HE		1
WPN CREW SR				HE		1
ENGINEER						
BRDG FT PON	ROCKETS		4	HE		1
BRDG VEH PON	ROCKETS		4	HE		1
BRDG FT RAFT	ROCKETS		4	HE		2
BLDG CONC	CRATERING BOMB		5	HE		2
BLDG MASONRY	GP		3	HE		2
BLDG METAL	GP		3	HE		2
BLDG SPEC P	GP		3	HE		2
BLDG UNK	GP		3	HE		2
BLDG WOOD	GP		3	WP		2
BUNKER	ROCKETS		6	HE		6
PILLBOX	ROCKETS		6	HE		4

	AIR			NSFS (5"54)		
CAT/TYPE	1ST MUNITIONS	2D MUNITIONS	VOL	1ST SHL/ 2D SHL	1ST FZ/ 2D FZ	VOL
REC						
LOUDSPKR				HE		1
EW EQUIP	GUIDED MSL		1	HE		1
RSTA						
CBR	CBU		5	HE		3
CMR	CBU		5	HE		3
DF RADAR	GP		4	HE		2
GD SURV RDR	GP		4	HE		2
SRCH LIGHT				HE		1
VEH RECON	ROCKETS		1	HE		3
NUC/CHEM						
CHEM PLANT	GP		8	HE/WP		5
POL						
POL PLANT	NAPALM		8	WP		5
AMMO						
AMMO DUMP	NAPALM	GP	8	HE/WP		5
MAINTENANCE						
SUPPLY CL1	GP		3	HE		3
SUPPLY CL2	GP		3	HE		3
SUPPLY CL3	GP		3	HE		3
LIFT						
BOAT	ROCKETS		1	HE		1
FERRY BRDG	ROCKETS		2	HE		1
HELI ATTACK	ROCKETS		1	HE		1
HELI CARGO	ROCKETS		1	HE		1
HELI OBSER	ROCKETS		1	HE		1
VEH HVY WHL	GP		1	HE		1
VEH LT WHL	GP		1	HE		1
VEH UTILITY	GP		1	HE		1
AIRCRAFT	CBU		1	HE		1
LOC						
DEFILE	GP		1	HE		1
HILL	GP		1	HE		1
LAND STRIP	CRATERING BOMB		6	HE		1
RR SEGMENT	GP		3	HE		1
BRDG VEH WD	GP		3	HE		1
BRDG VEH ST	GP		1	HE		1
BRDG SITE	GP		1	HE		1
BRDG VEH CONCRETE	CRATERING BOMB	GP	6	HE		1

	AIR			NSFS (5"54)		
CAT/TYPE	1ST MUNITIONS	2D MUNITIONS	VOL	1ST SHL/ 2D SHL	1ST FZ/ 2D FZ	VOL
ROAD JUNCT	CRATERING BOMB	GP	4	HE		1
ROAD SEGMENT	CRATERING BOMB	GP	4	HE		1
TER FEATURE				HE		1

1. MISSION PRIORITIZATION, FIRE MISSION CUTOFF FACTORS AND PRIORITIES OF FIRE.

RANK	WEIGHT	RANK/WEIGHT PARAMETERS		PRIORITY OF FIRE
3	10	ON-CALL TARGET		AS
1	50	TARGET		PER
2	25	PRIORITY OF FIRE		OP
4	15	TAI'S		ORDER
FIRE MISSION CUTOFF FACTORS				
	MAGTF FFCC/DIV FSCC	REGT FSCC	BN FSCC	REGT/BN FDC
MORTARS	99	99	15	99/99
ARTILLERY	35	35	20	20/35
NSFS	25	25	25	25
AIR	15	15	25	15

1. SYSTEM PREFERENCE TABLE.

CAT/TYPE	ARTILLERY	MORTARS	NSFS	AIR
ADA				
UNKNOWN	1	3	2	4
LIGHT	1	3	2	4
MEDIUM	1	3	2	4
HEAVY	1	3	2	4
MISSILE	1	3	2	4
POSITION	1	3	2	4
FS				
ARTY UNK	1	2	4	3
ARTY LIGHT	1	2	4	3
ARTY MEDIUM	1	2	3	N
ARTY HEAVY	1	2	3	N
ARTY TOWED	1	2	3	N
MISSILE HVY	1	2	3	N
MISSILE MDM	1	2	3	N
MISSILE LT	1	2	3	N
MORT VHVY	2	1	3	4
MORT MDM	2	1	3	4
MORT LT	2	1	3	N
MORT UNK	2	1	3	N
RKTMSL APER	2	1	3	4
RKTMSL ATK	2	1	3	4
RKTMSL POS	2	1	3	4
RKTMSL UNK	2	1	3	4
C3				
CP BN	2	N	3	1
CP DIV	2	N	3	1
CP FORWARD	2	N	3	1
CP REGT	2	N	3	1

CAT/TYPE	ARTILLERY	MORTARS	NSFS	AIR
CP SMALL	2	4	3	1
CP UNKNOWN	2	4	3	1
GUID EQUIP	1	3	2	4
NAV AIDS	1	3	2	4
MANEUVER				
GUN AT	1	3	2	4
APC	1	3	2	4
VEH ARMOR	1	4	3	2
AA MECH TRP	2	4	3	1
AA TRPS	2	4	3	1
AA TPR/ARM	2	R	3	1
AA TRP/VEH	2	4	3	1
INFANTRY	2	4	3	1
MG HVY	2	4	3	1
MG LT	2	4	3	1
OP	2	4	3	1
PATROL	2	4	3	1
REC RIFLE	2	4	3	1
TANK HVY	2	R	3	1
TANK MDM	2	R	3	1
TANK LT	2	R	3	1
WK PARTY	1	2	3	R
WPN CREW SR	1	3	2	4
ENGINEER				
BRDG FT PON	2	3	4	1
BRDG VEH PON	2	3	4	1
BRDG FT RAFT	2	3	4	1
BLDG CONC	2	3	4	1
BLDG MASONRY	2	3	4	1
BLDG METAL	2	3	4	1
BLDG SPEC P	2	3	4	1
BLDG UNK	2	3	4	1
BLDG WOOD	2	3	4	1
BUNKER	2	4	3	1
PILLBOX	2	4	3	1
REC				
LOUDSPKR	1	3	2	R
EW EQUIP	1	3	2	4
RSTA				
CBR	1	3	2	4
CMR	1	3	2	4
DF RADAR	1	3	2	4
GD SURV RDR	1	3	2	4
SRCH LIGHT	1	3	2	R
VEH RECON	1	3	2	4
NUC/CHEM				
CHEM PLANT	2	R	3	1
POL				
POL PLANT	2	4	3	1

CAT/TYPE	ARTILLERY	MORTARS	NSFS	AIR
AMMO				
AMMO DUMP	2	4	3	1
MAINTENANCE				
SUPPLY CL1	2	4	3	1
SUPPLY CL2	2	4	3	1
SUPPLY CL3	2	4	3	1
LIFT				
BOAT	2	4	1	3
FERRY BRDG	2	4	1	3
HELI ATTACK	2	4	3	1
HELI CARGO	2	4	3	1
HELI OBSER	2	4	3	1
VEH HVY WHL	2	4	3	1
VEH LT WHL	2	4	3	1
VEH UTILITY	2	4	3	1
AIRCRAFT	2	4	3	1
LOC				
DEFILE	2	1	3	4
HILL	2	1	3	4
LAND STRIP	2	4	3	1
RR SEGMENT	2	4	3	1
BRDG VEH WD	2	4	3	1
BRDG VEH ST	2	4	3	1
BRDG SITE	2	4	3	1
BRDG VEH CONCRETE	2	4	3	1
ROAD JUNCT	2	1	3	4
ROAD SEGMENT	2	1	3	4
TER FEATURE	2	1	3	4

1. IFSAS SPECIFIC GUIDANCE. IFSAS, though much more limited in its acceptance of guidance, must be made to match as closely as possible to the guidance established in AFATDS. See SOP chap.7 for exact information.

CHAPTER 7

OPERATIONS

1. **GENERAL.** Due to the unique nature of operations with IFSAS and AFATDS in the same unit special procedures must be utilized. These are provided in this chapter.

1. **TARGET MANAGEMENT.** Target file management is accomplished in two operations.

A. **TARGET INDICATORS** are messages that produce directional information.

An example of these is the shell report. Target indicators are processed at the artillery target processing center. The setup required to process these is device dependent.

(1)**IFSAS EQUIPPED STATIONS**. All IFSAS stations operate in ATI mode 1. IFSAS equipped stations establish the following message of interest files.

(a) BATTALION FSCC ATI;SHR INCOMING/ALWAYS to REGT FSCC.

(b) REGT FSCC ATI;SHR INCOMING/ALWAYS to DIV FSCC.

(c) ARTY BN FDC ATI;SHR INCOMING/ALWAYS to REGT FDC.

(2) **AFATDS EQUIPPED STATIONS**. The artillery TPC operates with TARGET INDICATOR PROCESSING set to ON. All others allow this processing to default to OFF. Target indicators are routed to the TPC by each AFATDS station. This is accomplished by establishing routing of TARGET INDICATOR type messages using the CONFIGURE RECEIVING SETUP selection of ALERTS & MESSAGES, MESSAGES. All target indicators are routed to the TPC. This requires that the communications planner provide a route to the TPC for each AFATDS station.

B. **ARTILLERY TARGET INTELLIGENCE (ATI)**. ATI messages are processed at each AFATDS station. These may become fire missions if the target is an HPT, a planned target if it passes target selection standards and has a precedence of planned, an inactive target if a non-HPT or a suspect target if it fails TSS. Suspect targets are stored and require confirmation before additional processing is applied. The method of processing is device dependent.

(1) **IFSAS EQUIPPED STATIONS**. IFSAS stations, as discussed above, operate in ATI MODE 1. These stations transmit received ATI target type messages via MOI to allow the message to be processed at an AFATDS station. The following MOI files are created:

(a) BATTALION FSCC ATI;CDR INCOMING/ALWAYS to REGT FSCC
ATI;AZR INCOMING/ALWAYS to REGT FSCC

(b) REGT FSCC ATI;CDR INCOMING/ALWAYS to DIV FSCC
ATI;AZR INCOMING/ALWAYS to DIV FSCC
(c) ARTY BN FDC ATI;CDR INCOMING/ALWAYS to REGT FDC
ATI;AZR INCOMING/ALWAYS to REGT FDC

(2) **AFATDS EQUIPPED STATIONS**.

(a) AFATDS stations operate with SUSPECT TARGET PROCESS set to ON and a degree of overlap established by the commander with the assistance of the G-2/S-2.

(b) ATI messages can only be transmitted from an AFATDS station to an All Source Analysis System (ASAS) equipped agencies. ATI messages must instead be transmitted by entering the target into the ONCALL target list and transmitting the target from this list. ATI messages received from non-AFATDS devices are processed as per the precedence

set in the TMM.

NOTE: It is very important at all levels for target processing that the TARGET MANAGEMENT MATRIX and TARGET SELECTION STANDARDS are properly determined and stored. These are critical to the proper determination of target status and the construction of the planned target list (source of many targets for fire planning). Also ensure guidances and unit data are disseminated and updated between AFATDS and IFSAS.

1. FIRE PLANNING. The fire planning sequence is modified as described below.

TABLE 7-1, AFATDS/IFSAS FIRE PLANNING SEQUENCE IN CURRENT			
	STATION	ACTION	REMARKS
1	AFATDS FIRE SUPPORT PLANNER	Decision is made to create a fire plan in the current situation.	Targeting begins for the plan by: 1. Adding enemy units to the ONCALL target list. 2. Adding targets to the current ONCALL list from the current PLANNED and INACTIVE target lists.
2	AFATDS FIRE SUPPORT PLANNER. (FSCC)	Creates the fire plan	The fire planner eliminates duplicates from the ONCALL TARGET LIST. The fire plan is created by selecting TARGETS, FIRE PLAN, NEW. The fire plan is named and all desired targets from the ONCALL LIST are added. OK the window. The plan is not computed.
3	AFATDS FIRE SUPPORT PLANNER. (FSCC)	Warns subordinates to prepare to receive target list for the fire plan.	Transmit a FREETEXT message warning of imminent transmission.
4	SUBORDINATE FSCCS	Prepare to receive plan and target list.	IFSAS see 4b.
4a	AFATDS SUBORDINATE FSCC	Transmit a FREETEXT message indicating readiness to receive the target list.	
4b	IFSAS SUBORDINATE FSCC	1. Build a MOD FILE for the plan from current. Select FIRE PLANNING, COMD, BUILD MOD FILE. 2. Copy all current AFU data to the plan. Select FIRE UNIT AND AMMO, BUILD. 3. Copy all current SPRT data to the plan. Select SUPPORT, BUILD. 4. Transmit a SYS;PTM to the AFATDS FIRE PLANNER indicating readiness to receive the target list.	

TABLE 7-1, AFATDS/IFSAS FIRE PLANNING SEQUENCE IN CURRENT			
	STATION	ACTION	REMARKS
5	AFATDS FSCC FIRE PLANNER	Transmit the fire plan.	1. Click 1 on TARGETS, FIRE PLANS, EDIT. Select the fire plan name and SEND. From the SELECT UNIT window click 1 on each subordinate FSCC unit ID and click 1 on OK to transmit the list. 2. Transmit a FREETEXT message indicating the plan has been transmitted.
6	SUBORDINATE FSCC	Receive the list.	
6a	AFATDS SUBORDINATE FSCC	Click 1 on TARGETS, FIRE PLANS. Select the fire plan name and click 1 on OK.	
6b	IFSAS SUBORDINATE FSCC	Display alert from alert queue: PRINTING OF FPTGT PLAN:@@@@@@ SUPPRESSED. Select MSG to display the associated NNFP;COMD message and select ACTION, ENTER to print the received FPTGT.	
7	SUBORDINATE FSCC	Transmit target nominations as bottom up refinement.	
7a	AFATDS SUBORDINATE FSCC	1. Compare received fire plan targets to those on file and determine any nominations to the list. 2. Build the desired nominations into a plan and transmit the plan to the AFATDS FIRE PLANNER. 3. Transmit a FREETEXT message indicating nominations have been transmitted. 4. Delete the received fire plan.	
7b	IFSAS SUBORDINATE FSCC	1 Compare received fire plan targets to those on file and determine any nominations to the list. 2. Add any nominations to the FPLST of the same plan by use of the NNFP;FPTU message. 3. Transmit the **FPLST** to the AFATDS FIRE PLANNER. 4. Transmit a SYS;PTM message indicating nominations have been transmitted. 5. Delete the FPTGT and FPLST for the plan.	

TABLE 7-1, AFATDS/IFSAS FIRE PLANNING SEQUENCE IN CURRENT			
	STATION	ACTION	REMARKS
8	AFATDS FSCC FIRE PLANNER	Receive the target nominations and eliminate duplicate targets.	1. Target nominations from IFSAS are received titled with the logical name of the sender. Target nominations received from AFATDS retain the naming convention given at the sender. 2. In addition to receiving plan target lists, the received targets are added automatically to the ONCALL target list on reception. 3. In the ONCALL target list, Click 1 on SORT, and CHECK FOR DUPLICATES. 4. Add the targets not duplicated and desired into the plan. 5. Delete the fire plan nomination lists: click 1 on TARGETS, FIRE PLANS, EDIT. Highlight the fire plan and select delete.
9	AFATDS FSCC FIRE PLANNER	Complete the fire plan and schedule of fires.	1. Select FIRE PLANS, Select the FP name, EDIT, OPTIONS, SCHEDULE, OPTIONS, CALCULATE. 2. Any targets not scheduled by AFATDS can be manually scheduled.
10	AFATDS FSCC FIRE PLANNER	Disseminate the plan.	Select TARGETS and FIRE PLANS, highlight the plan and send to desired units.
10a	To AFATDS and IFSAS equipped fire support assets	Transmit the schedule of fires.	1. Transmit a FREETEXT warning order. 2. Ensure IFSAS units have MOD FILE, AFU and SUPPORT files built. 3. Click 1 on TARGETS, SCHEDULE OF FIRES. Select the schedule of fire name and SEND.
10b	To non-digital fire support assets.		1. Click 1 on TARGETS, SCHEDULE OF FIRES. Select the fire plan name and PRINT.(Note: Printing from this window will not show the Fire Units) 2. The printed schedule is sent by voice comm or courier to non-digital units.
11	FIRE SUPPORT ASSETS	Receive the schedule of fires.	

TABLE 7-1, AFATDS/IFSAS FIRE PLANNING SEQUENCE IN CURRENT			
	STATION	ACTION	REMARKS
11a	AFATDS EQUIPPED FIRE SUPPORT ASSETS	1. Click 1 on TARGETS , SCHEDULE OF FIRES. Select the plan name and review. The SCHEDULE OF FIRES is then transmitted to each subordinate as per step 10a. 2. At the last AFATDS the schedule is transmitted to the BCS or FDS. Click 1 on TARGETS, FIRE PLANS, Select Fire Plan, EDIT, EXECUTE, Select OK. Then select TARGETS, SOF, Select the SOF Name, EDIT, Select the unit's line you are sending, Select OPTIONS, SEND TO SELECTED, Select the BCS, and OK. All data for that firing unit is transmitted. **DENY ALL MISSIONS IN THE IP WINDOWG ENERATED BY** EXECUTING THE SOF.	
11b	IFSAS EQUIPPED FIRE SUPPORT ASSETS	1. Display alert from alert queue: PRINTING OF FPLST/TISF PLAN:@@@@@@ SUPPRESSED. Select MSG to display the associated NNFP;COMD message and select ACTION, ENTER to print the received TISF. The number of rounds required is correct. The number of actual rounds assigned to each target erroneously displays 0 and fuzes display default values for the shells. 2. Using the NNFP;COMD message, delete the TISF and ONCALL target list for the plan. 3. Re-instruct the fire plan based on the TISF fire units and shells and the number of volleys indicated in the REQ VOL field for each target. 4. Compute the fire plan based on the guidance on the printed TISF. 5. Transmit the TISF to all subordinate IFSAS FDCs. 5. At the last IFSAS FDC the schedule is transmitted to the BCS or FDS using the NNFP;EXECFP message. This transmits the plan as a series of NNFP;CFFs to BCS and NNFP;TARGET messages to FDS.	
12	AFATDS FSCC FIRE PLANNER	Achieve coordination.	
12a	TO AFATDS EQUIPPED FSCC	1. Display the ONCALL TARGET LIST. 2. Select SORT, CHECK FOR COORDINATION. 3. For those targets of the fire plan that require coordination with AFATDS equipped stations, transmit the coordination request.	

TABLE 7-1, AFATDS/IFSAS FIRE PLANNING SEQUENCE IN CURRENT			
	STATION	ACTION	REMARKS
12b	TO IFSAS EQUIPPED FSCC	Instruct the IFSAS FSCC to: 1. Build a MOD FILE for the plan from current. Select FIRE PLANNING, COMD, BUILD MOD FILE. 2. Copy all current AFU data to the plan. Select FIRE UNIT AND AMMO, BUILD. 3. Copy all current SPRT data to the plan. Select SUPPORT, BUILD. 4. Transmit a SYS;PTM to the AFATDS FIRE PLANNER indicating readiness to receive the target list. 5. Once received, display alert from alert queue: PRINTING OF FPTGT PLAN:@@@@@@ SUPPRESSED. Select MSG to display the associated NNFP;COMD message and select ACTION, ENTER to print the received FPTGT/TISF. 6. **Manually** compare the target to FSCMs and unit location. 7. Transmit a SYS;PTM indicating all approved and denied targets.	
13	AFATDS FSCC FIRE PLANNER	Adjust the fire plan for coordination results.	1. Determine those targets that must be deleted or changed. Transmit these changes as FREETEXT messages addressed to all fire support assets. 2. Contact non-digital units using voice communications to relay the changes to the fire plan.
14	FIRE SUPPORT ASSETS	Relay the FREETEXT message to the FDS/BCS stations.	
15	BCS/FDS ASSETS	Alter the fire plan.	These assets change the fire plan based on the SYS;PTM received. These alterations are made to the fire plan file targets.
16	FIRE THE FIRE PLAN	The fire plan is executed automatically at the BCS and FDS equipped stations based on the H-HOUR time. H-hour must be established prior to firing the plan and transmitted to subordinates from the fire planner FSCC. ONCALL fire plans are executed by setting H-HOUR at the BCS or FDS for the time of activation.	
17	FIRE SUPPORT ASSETS	All fire support assets transmit updated ammunition inventories and a list of any targets not fired including those attacked with less than the required quantity of ammunition.	

1. FIRE MISSION PROCEDURES

A. **Fire requests from outside an organization**. AFATDS stores the observer number of a radar, spotter or observer in the EDITS ROUTES window of the communications configuration. Because of this factor, AFATDS transmits observer number 00

(OB:00) in observer location messages (FM;OBCOs) to a TACFIRE device **unless** a communications route exists for the FO at the AFATDS computer. (AFATDS is not limited by this since the unit data transmitted between AFATDS devices is identified by the master unit list number and not FO number.)

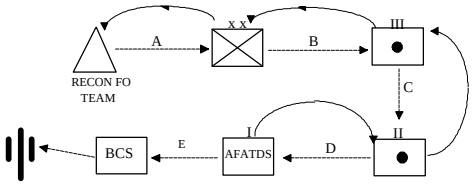
(1) **Receiving a Fire Request.** The lowest level AFATDS that receives a fire request from a non-AFATDS device must have a route built to the observer that originated the mission (This route can be a non usable route). If no route exists when a fire request is received by AFATDS, the alert "TF RANGE ERROR" is produced and the fire request cannot be processed.

(2) **Fire Request Processing**. In addition, when a fire request, received from an intermediate AFATDS, is processed at an AFATDS computer and the data base does not contain a route for the originating observer, AFATDS has no way of knowing what observer number to assign to the mission and again uses 00 when transmitting the message to a TACFIRE device. This causes an additional problem when the fire request is sent to an IFSAS device. The FM;CFF is received in the alert queue as missing observer number and should be edited, inputting the observer number and action entering the message causes the fire request to be put into the input queue. BCS at the artillery battery FDC requires the observer number for complete processing. This poses no problems for the artillery battalion as long as routes are provided in the communications architecture of all supported FOs. However, potentially catastrophic message transmission problems can occur when fire missions are received from outside the unit from observers for which no route is available. This instance could occur when a mission is processed from the regimental FDC. The procedure in table 7-2 compensates for this without the need to maintain comm routes to every spotter and FO in the force.

	Table 7-2, FIRE REQUEST FROM NON-ORGANIC OBSERVER		
STEP	OPFAC	ACTION	REMARKS
1	Observer	Transmit digital fire request to supported FSCC.	
2	Supported FSCC	Transmits FSE FR to an intermediate OPFAC.	The supported FSCC performs this step when it possesses insufficient assets to effectively engage the target.
3	Intermediate OPFAC	Processes fire request.	Processing results in the assignment of the mission to a fire unit that does not possess a route to the observer.
4	Fire unit AFATDS	Process the fire request. If an artillery unit, transmit the fire order to the BCS. The message to observer fails.	The medium level alert "TRANSMISSION OF (tgt number) MTO TO (observer unit ID) FAILED.
5	Fire unit BCS	Receive FM;CFF:O.	Change the observer number from 00 to a number not currently assigned to any stored observer then process the message. This will prevent the BCS from rejecting the next OB:00 MSN:1 FM;CCF:O.

	Table 7-2, FIRE REQUEST FROM NON-ORGANIC OBSERVER		
STEP	OPFAC	ACTION	REMARKS
6	Fire unit AFATDS	Transmit the MTO.	On the medium level alert warning that the MTO failed, click 1 on SEND TO ORIGINATOR. MTO is transmitted to each OPFAC that processed the mission thus routing to the observer.
7	Fire unit AFATDS	Transmit SHOT report.	When BCS attempts to transmit SHOT to the FO the message fails at the fire unit AFATDS because no correlation between the observer number in the TACFIRE message and the mission exists at the AFATDS. The fire unit AFATDS operator must: 1. Click 1 on TARGETS, TARGET LIST, and ACTIVE to display the target list window. 2. Click 1 on the target number of the fire mission to highlight and select. 3. Click 1 on TARGET on the menu bar and COMMANDS on the pull down menu. 4. On the COMMANDS window, change FIRE STATUS to SHOT. Click 1 on SEND and transmit the message to the OPFAC from which the fire mission was received.
8	All OPFACs	Process the remainder of the mission.	

EXAMPLE 7-2: In the figure above the recon teams transmit a fire request to the division FSCC (dashed line A). This is processed and assigned to the artillery regiment (dashed line B) and in turn transmitted to an artillery battalion (Dashed line C), and finally to a fire unit AFATDS (dashed line D). No route exists at the fire unit for the FO. The AFATDS operator transmits the fire order to the BCS (dashed line E). At the same time an alert indicates that the MTO has failed. The AFATDS operator selects SEND TO ORIGINATOR. This causes the MTO to trace the route established by the processing of the fire request (solid lines). The BCS, located with the AFATDS computer controls the battery but all commands (SHOT, SPLASH, ROUNDS COMPLETE, ETC.) are passed from the battery AFATDS.



B. **MASS FIRE MISSIONS.** Despite the guidance entered there may be times that the commander directs that fire missions received are massed upon. The following procedure allows a mission to be massed upon. It should be noted that this procedure overrides commander's guidance.

	Table 7-3, MASSING FIRES AT AN ARTILLERY FDC.		
STEP	OPFAC	ACTION	REMARKS
1	Observer	Transmit digital fire request to supported FSCC.	
2	Supported FSCC	Transmits FSE FR to an intermediate OPFAC.	The supported FSCC performs this step when it possesses insufficient assets to effectively engage the target.
3	Intermediate OPFAC	Processes fire request.	Processing results in the fire request being routed through any other FSE/FSCC OPFACS and finally to an artillery CP.
4	Artillery CP	Process the fire request.	The decision is made to override the solution determined and mass fires.
5	Artillery CP	Transmit a FREETEXT message to the observer.	Inform the observer that the mission will be ended and re-processed. He will receive a denied MTO that is to be disregarded.
6	Artillery CP	Deny the fire mission.	Display the intervention window for the fire mission. Click 1 on DENY. The mission is placed in the ACTIVE MISSION MONITOR. OK the MISSION DENIED window.
7	Artillery CP	Reprocess the mission.	Click 1 on TARGET, TARGET LISTS, INACTIVE.
			a. Click 1 on the target number of the mission to select that target.
			b. Click 1 on OPTIONS, INITIATE FIRE MISSION.
			c. Click 1 on SYSTEM and select FA. Click 1 on UNIT SIZE and select the size unit to mass, or select all available.
			d. Click 1 on OK to process the mass fire mission.

C. **AIR MISSION (AIR CONTROLLED AT DASC).** Air missions are sill processed as previous up to DASC. However, with the functionally of TASM the air mission when OKed at the DASC becomes an ASR in air day 01 of the TARL. This is due to the fact that the DASC has CTAPS entered in the destination field of the air support window. This entry causes an air request to become an ASR. The ASR can then be edited for the inclusion of air specific information and due to the fact that there are no further digital devices in the chain the ASR is printed for further dissemination.

D. Table 7-4 Air mission processing sequence .

1	Observer	Transmit digital fire request to supported FSCC.	
2	Supported FSCC	Transmit FSE FR to an intermediate OPFAC.	The supported FSCC (Battalion or Regimental FSCC) determines the mission is either unsupportable or requires engagement by assets avaible at the next higher echelon. The target may or may not be assigned as an air mission at tis point. If the mission is from a TACP or FAC then the mission is fowared as an air mission.
3	Division FSCC	Process the fire request.	Those missions that meet the guidance for the use of air and pass all other filters and checks, are assigned to the DASC due to the UNIT PREFERENCES TABLE entry of the DASC as the AIR UNT ID.
4	DASC	Process the fire request.	The air mission is received at the DASC and upon selecting the OK button the air mission leaves the IP window and an immediate ASR is created in air day 01 of the TARL.
5	DASC	Process the ASR.	The TARL is diplayed, air day 01 accessed and the ASR is edited. Any further information pertenant to the mission is added and the ASR is printed.

E. **PROCESSING UNSUPPORTABLE MISSIONS AT IFSAS.** When Bn FSCC IFSAS processes a fire mission one of three possible solutions is determined.

(1) **FM;CFF**. The fire request is processed to determine an acceptable solution using organic or supporting assets. IFSAS generates the appropriate messages to direct processing at subordinate units. For example, an FO transmits a fire request to his supported battalion FSCC. The battalion's mortar platoon can achieve the desired effects specified in the mod file. The mission is processed as an FM;CFF to the mortar platoon. If the mortar platoon has an MBC the mission is received as an FR;GRID and a FREETEXT msg. with target number and number of volleys.

(2) **FM;CFF:X With Partial Solution.** The fire request is processed to determine a solution using supporting or organic assets but the assets are inadequate to achieve the desired effects specified in the commander's attack methods. In this case an FM;CFF:X is generated to request reinforcing fires from the unit entered in the communications subscriber screen DEFAULT DESTINATION field. For example, a fire request is received at a battalion FSCC and processed to cause the battalion mortar platoon to be assigned to engage the target. However, the mortar platoon cannot fire the required number of volleys to defeat the target. An FM;CFF:X is generated to request additional fires to augment those of the mortars.

(3) **FM;CFF:X With no Solution.** The fire request is processed to

determine no solution from organic or supporting assets. An FM;CFF:X is generated to request reinforcing fires from the unit entered in the communications subscriber screen DEFAULT DESTINATION field. For example, a fire request is received at a battalion FSCC. The battalion mortar platoon cannot fire on the target because the first volley does not achieve ECOF. An FM;CFF:X is generated to request additional fires.

(4) In cases (2) and (3) an FM;CFF:X is generated. When this message is received at AFATDS it is judged as a denial of the mission instead of a request for reinforcing fires.

(5) **Procedures**.

(a) IFSAS computers transmit an FM;CFF:X to an AFATDS only when the fire request has been received from the AFATDS and the IFSAS station cannot process the mission. For example, an FM;CFF:R is received at the IFSAS battalion FDC from the AFATDS regimental FDC. The battalion FDC IFSAS computer determines no solution using organic assets due to a sudden change in fire unit status that had not been relayed to the AFATDS computer when it selected the battalion to fire. The battalion FDC determines an FM;CFF:X message and transmits this to the AFATDS. At AFATDS the FM;CFF:X is received as a denial allowing the mission to be processed again but not allowing the original battalion to be selected again unless the operator overrides the solution.

(b) IFSAS computers do not transmit FM;CFF:X messages for fire requests from subordinates that result in no solution. This is accomplished by performing the following guidance and processing entries at the IFSAS.

1) All fire support assets available to the next higher echelon are stored at the IFSAS computer. These assets are ordered under the next higher echelon's logical name using the FM;FUSEL message. This directs the IFSAS computer to examine the fire units as potential shooters but to direct requests to use these assets to the next higher echelon.

2) When a fire mission is processed and still results in an FM;CFF:X, the IFSAS station recalculates the mission to achieve an FM;CFF addressed to the next higher echelon. This message provides the means for transmitting the mission to an organization with greater fire support assets. The FM;CFF is transmitted as a request for fire on an unsupportable target and any additional FM;CFF:X is discarded.

F. CONTINUITY OF OPERATIONS. SEE CHAPTER 4 FOR CONOPS PROCEDURES AND SOP CHAPTER 4 FOR IFSAS PROCEDURES.

APPENDIX E
COMMUNICATIONS REFERENCE

The following tables provide specific protocol and device settings useful to the planner in identifying unique needs of each station when constructing or editing data communications net architecture.

TABLE E-1 PROTOCOLS SUPPORTED BY TACTICAL COMPUTERS

DEVICE	PROTOCOLS	ENCODING	DATA RATES	REMARKS
AFATDS	VMF	FSK 1200/2400 1300/1700 1300/2100 1575/2425	600, 1200	Used for transmission on non-digital analog radios. FSK 1300/1700 uses data rate 600 bps only.
		NRZ	600, 1200, 2.4K, 4.8K, 16K	Used with SINCGARS-ICOM
		CDP	600, 1200	Used in wire media nets.
	TACFIRE	FSK 1200/2400 1300/2100	600, 1200	
BCS	TACFIRE	FSK 1200/2400 1300/2100	600, 1200	
DMS	TACFIRE, fixed format only	FSK 1200/2400 1300/2100	600, 1200	
		NRZ	8000*, 16K	*Compatible with DMS only, 8000 bps not usable due radio and device limitations
FIREFINDER AN/TPQ-36 and 37	TACFIRE, fixed format only	FSK, 1200/2400	600, 1200	
FDS	TACFIRE	FSK	600, 1200	
FOFAC	TACFIRE, fixed format	FSK 1200/2400	600, 1200	
	MTS			
IAS	OTH GOLD LAN using USMTF			Compatible with JEMCIS and TCO only.
IFSAS	TACFIRE	FSK	600, 1200	
		NRZ	600, 1200, 2.4K, 4.8K, 16K	Compatible with other IFSAS and DMS (16K only)
MDS	TACFIRE, variable format only	FSK 1200/2400	600, 1200	
MMS	TACFIRE			
RDDL	TACFIRE fixed format only	FSK 1200/2400	1200	Parses fixed format TACFIRE FR GRID and SUS ADJ messages into NTDS protocol for the MK34 gunfire computer.

TCO	OTH GOLD			Compatible with JEMCIS and TCO only.

TABLE E-2. RADIO Compatibility with Tactical Computer Protocals			
RADIO	PROTOCOL	DATA RATES	ENCODING
SINCGARS-ICOM	TACFIRE	600 and 1200 bps with radio data rate set to AD1 or TF.	FSK 1200/2400 1300/2100
	VMF	600, 1200, 2400, 4800 and 16000 bps with radio data rate set to matching rate.	NRZ
VRC-12 series	TACFIRE	600 and 1200.	FSK
VRC-12 series with VINSON	TACFIRE	600, 1200 600, 1200, 2400, 4800, 16000	FSK NRZ
ULCS	VMF	16000, 32000	CDP
2-WIRE	TACFIRE	600 and 1200	FSK
	VMF	600 and 1200	CDP

TABLE E-3 PREFERRED PROTOCOLS			
DEVICE	COMM MEDIUM	SHARES NET WITH	PROTOCOL
AFATDS	SINCGARS-ICOM	AFATDS	VMF-NRZ
	VRC-12 radios	AFATDS	VMF-FSK 1200/2400htz
	WIRE	AFATDS	VMF-CDP
	ULCS	AFATDS	ULS-CDP
AFATDS	SINCGARS-ICOM, VRC-12 or wire	IFSAS, BCS, FDS, DMS, FIREFINDER, and/or MMS/MDS	TACFIRE-FSK 1200/2400htz
IFSAS	SINCGARS-ICOM or VRC-12 with KY-57	IFSAS and/or DMS	DIGITAL -16000bps

TABLE E-4 VMF PROTOCOL RULES			
NET SETTING	RULES		
ADDRESSES	Supports the use of addresses 02 through 99 on each net.		
DATA RATES	Dependent upon communications medium and data encoding method:		
	MEDIA	DATA ENCODING	DATA RATES in bps
	SINCGARS-ICOM	NRZ	600,1200,2400,4800 and 16000
	NON-SINCGARS w/o encryption	FSK 1200/2400	600 and 1200
		FSK 1300/2100	600 and 1200
		FSK 1300/1700	600 only
		FSK 1575/2425	600 and 1200
	KY-57	NRZ	16000

TABLE E-4 VMF PROTOCOL RULES	
NET SETTING	RULES
CARRIER DROP OUT TIME	All settings must be the same at all AFATDS in the net. Recommend using the default values of PT and CT, single channel 0.2, PT and CT frequency hopping and master station, 0.3, TIME DELAY, all modes 0.5.
ERROR CONTROL	Always use FEC_TDC.
KEY TIME	Required for all media except SINCGARS-ICOM and KY-57. Must be the same at all stations. Recommend not lower than 0.7 for SINCGARS, 1.4 for all other radios and use of 0.2 for wire.
NET ACCESS	Always use ADAPTIVE and ensure each station possess a unique rank (1-24) and total number of stations on the net is provided to each user.

TABLE E-5 TACFIRE PROTOCOL RULES		
NET SETTING	RULES	
ADDRESSES	**PHYSICAL ADDRESS:** Fixed format device (DMS, FOFAC, FIREFINDER) support 0 through 9 and A through Z. Variable format devices support same as fixed and symbols # & + - . ? and *. **RELAY ADDRESS:** Letters Q through Z should be reserved for NCS use as fixed format relay addresses. **MOI ADDRESS:** IFSAS allows the use of a message of interest address. These should be the same as a station's physical address.	
DATA RATES	Only 600 and 1200 bps and data encoding 1200/2400 htz or 1300/2100 FSK are supported by all devices. The following exceptions apply:	
	MMS, MDS and FIREFINDER	Support only 1200/2400 htz FSK
	AFATDS	using wire media supports and CDP encoding supports 8000, 16000 and 32000 bps.
		using SINCGARS-ICOM or KY-57 and NRZ encoding supports 600, 1200, 2400, 4800 and 16000 bps.
NOTE: IFSAS and DMS support DIGITAL data rates of 600, 1200, 2400, 4800 and 16000 at IFSAS and 8000 and 16000 at DMS. These cannot be used to net to an AFATDS computer and DMS 8000 can only be used with KY-57 since SINCGARS does not support this data rate.		
HOLD TIME	Cannot be set by the operator. This is computed automatically at all devices and displayed only at AFATDS. This value is based on the keytime set.	
ERROR CONTROL	Always use EDC/TDC.	
KEY TIME	Must be the same at all stations. Recommend not lower than 0.7 for SINCGARS, 1.4 for all other radios and use of 0.2 for wire.	

TABLE E-5 TACFIRE PROTOCOL RULES	
NET SETTING	RULES
NET ACCESS	Time increment in half second that delays transmission to allow higher priority station to access the network. Unique value for must be assigned for each station. NCS should have value of 0.5 and all remaining stations are given a longer value working from top of command echelons to the bottom. IFSAS and AFATDS are that only devices that allow more than 1 access value. These devices allow 4 values for priroitized categories of TACFIRE message and their re-trnamit attempts. Recommend assigning a unique value for the first number, increment this be 1.0 seconds for the second, use the same value for the third and increment again by 1.0 seconds for the fourth number. This opens network to other stations during periods of re-transmit.