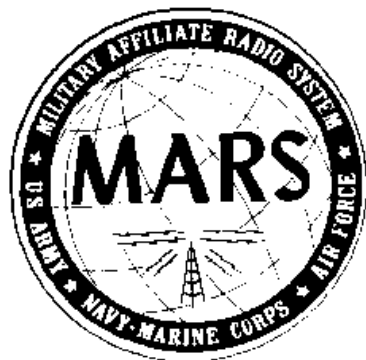


# PACIFIC AREA



## EMERGENCY COMMUNICATIONS TOOL KIT

6-Nov-09

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THE PACIFIC AREA ECOM TOOL KIT AND IS DESIGNED TO BE PRINTED AND INCLUDED IN YOUR ECOM FIELD KIT FOR QUICK REFERENCE. THIS TOOL KIT IS JUST THAT, A KIT OF TOOLS TO BE UPDATED AND USED.

FOR COMPLETE REFERENCE USE NTP8-C AND THE PACIFIC AOG. THIS PUBLICATION IS A COMPILATION OF THE SERIES OF PACIFIC AREA ECOM BCSTS. ANY QUESTIONS ON THE MATERIAL CONTAINED IN THE BROADCAST MESSAGES CAN BE ANSWERED BY YOUR STATE OR REGION ECOM ASST OR BY NNN0ASE TWO VIA THE CHAIN OF COMMAND.

INDIVIDUAL MEMBER ACTIVITIES

1. INDIVIDUAL MEMBER ACTIVITIES

- A. ADVANCE NOTICE OF EVENT ACTIVITY TO DO/ MESSAGE TO SEND
    - (1) PERSONAL PREPARATION, PACK PERSONAL 72 HR KIT
    - (2) ASSURE SECURITY OF HOME/FAMILY
    - (3) CHECK INTO THE PA1E NET
    - (4) NOTIFY ST DIRECTOR/ECOM ASSISTANT OF ANY CHANGE IN YOUR STATUS/EQUIP.
  - B. EVENT IN PROGRESS
    - (1) IF OF NATIONAL INTEREST SEND AN EEI VIA WL2K
    - (2) CHECK INTO THE PA1E NET
  - C. IF NMC MARS SUPPORT REQUESTED
    - (1) SUPPORT MUST BE REQUESTED, WE CAN NOT SELF ACTIVATE
    - (2) CHECK INTO ECOM NET AND INFORM NCS
    - (3) SEND IMPLEMENTATION VIA WL2K
  - D. DURING AN ONGOING EVENT
    - (1) AS NEEDED SEND
      - (A) EEI UPDATE/SITREP VIA WL2K AS APPROPRIATE
      - (B) SHARES/AMATEUR MSG REFILE VIA WL2K
  - E. AT END OF EVENT
    - (1) DO NOT FORGET TO SEND A FINAL EEI UPDATE/SITREP VIA WL2K
2. ART CAPTAIN ACTIVITIES
- A. AT ALL TIMES
    - (1) MAINTAIN A ROSTER OF ALL NMCM MEMBERS IN ART AREA
    - (2) MAINTAIN AN ART TEAM EQUIPMENT KIT AND ESTABLISH A CALL OUT PROCEDURE
  - B. CHECK INTO THE PA1E NET
  - C. IN EVENT OF EMERGENCY/WHEN AN EMERGENCY EXISTS IN THEIR STATE
    - (1) NOTIFY ART AREA MEMBERS THRU THE CALL OUT PROCEDURE
    - (2) NOTIFY STATE DIRECTOR/ECOM ASST OF ACTIONS TAKEN VIA WL2K/PHONE/NET

3

3. REGION/STATE EMERGENCY ASSISTANT AT ALL TIMES

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- (1) COORDINATE NMC MARS WITH OTHER AGENCY OFFICIALS
- (2) MAINTAIN A LIST OF STATE MEMBERS AND EQUIPMENT
- (3) SEND COMCON ALERT MSGS & ESTABLISH ECOM NET WHEN APPROPRIATE
- (3) NOTIFY ART CAPTAINS OF ANY EMERGENCY OR ALERT IN THEIR STATE VIA ANY MEANS AVAILABLE
- (5) CHECK INTO THE PA1E NET

PERSONAL & ART STA EQUIPMENT CHECK LIST

THIS LIST IS A PLACE TO START. DEVELOP YOUR OWN KIT THAT WORKS FOR YOU.  
KEEP IT SIMPLE AND INEXPENSIVE.

PERSONAL SUPPLIES

- 1. MARS DOD ID TAG (ON A NECK STRING), MARS CAP, JACKET/JUMPSUIT
- 2. DAY PACK/BELLY PACK OF PERSONAL SUPPLIES: SNACKS, CUP, 72 HR. OF PERSONAL MEDICATIONS, BASIC FIRST AID KIT, FOLDING PONCHO & SPACE BLANKET.

RADIO GEAR

- 1. VHF HT RADIO (W/ SIMPLE USE NOTES)
- 2. POWER CORD FOR AUX POWER (AC/DC SOURCE) W/ CONNECTORS
- 3. VHF MAG MOUNT OR J-POLE TYPE ANTENNA
- 4. 50FT COAX W/ CONNECTORS FOR VHF HT & ANTENNA
- 5. HF RADIO & TUNER (W/ SIMPLE USE NOTES)
- 6. POWER SUPPLY & CORD W/ CONNECTORS
- 7. ANTENNA: MOBILE OR SIMPLE MULTIBAND DIPOLE FOR SSB/SCD COMMS.
- 8. TELESCOPING ANTENNA MAST
- 9. 50FT COAX W/ CONNECTORS FOR HF RADIO & ANTENNA
- 10. LAPTOP W/ WORD PROCESSOR, MT63/WINMOR/PACTOR SOFTWARE, & POWER SUPPLY CABLE
- 11. TNC W/ CONNECTORS, CABLES, AND SIMPLE OPERATIONS NOTES
- 12. ART MARS DATA DISK
- 13. 50FT OUTDOOR EXTENSION POWER CORD & POWER STRIP
- 14. HEAD PHONES W/ PLUG ADAPTERS

2

STATION SETUP

1. SMALL FOLDING TABLE
2. 2 FOLDING CHAIRS
3. PICNIC CANOPY TARP
4. MARS SIGN OF SOME KIND
5. 2 CLIP BOARDS
6. MSG BLANKS PRINTED OUT
7. LOG SHEET PRINTED OUT
8. NOTEBOOK TO KEEP NOTES, MSGS & LOG IN
9. PENCILS/PENS, PAPER CLIPS, TAPE, NYLON STRING, DESK LAMP, ETC.

NOTES:

- A. A PAINT ROLLER EXT. POLE WORKS FOR A MAST.
- B. A MULTIBAND DIPOLE NVIS ANTENNA IS EASY TO BUILD W/2 OR 3 WIRES SEPARATED BY 3-4 INCHES CUT TO OUR PRIMARY ECOM & MAILBOX FREQS. ADD SOME NYLON CORD FOR HANGING.
- C. MOST LOCATIONS HAVE AN AC POWER SUPPLY AVAILABLE BUT PLAN AHEAD FOR YOUR OWN AUX POWER SUPPLY SOURCE (GENERATOR/BATTERY/SOLAR).
- D. MOST OLD 386/WIN95 TYPE LAPTOPS WILL WORK OUR PKT/PACTOR SOFTWARE, AVAIL FOR UNDER \$50. HIGHER PROCESSOR SPEEDS NEEDED FOR WINMOR
- E. A ROLLING LUGGAGE BAG WORKS FINE TO KEEP & HAUL IT ALL IN.

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ALERT NOTIFICATION (EMAIL TO: [RxECOM@navymars.org](mailto:RxECOM@navymars.org))x=REGION NUMBER

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1. IN SOME CASES, I.E. HURRICANE, ICE STORM WARNING, AN IMPENDING TSUNAMI, FOREST FIRES APPROACHING COMMUNITIES, ETC.) IT IS POSSIBLE TO ALERT AREA, REGION & STATE ART MEMBERS IN ADVANCE OF A PENDING DISASTER AND POSSIBILITY THAT MARS MAY BE ACTIVATED. FOR THIS PURPOSE AN ALERT MESSAGE MAY BE SENT BY THE ART CAPTAIN, STATE DIRECTOR, STATE EMERGENCY COMMUNICATIONS ASSISTANT, REGION DIRECTOR OR ECOM ASSISTANT TO OFFICIALLY PLACE MARS MEMBERS ON AN ALERT STATUS. MEMBERS SHOULD MONITOR THE DESIGNATED HF OR VHF FREQUENCIES TO AWAIT AN OFFICIAL NOTICE OF ACTIVATION. (REMEMBER, WE CANNOT SELF ACTIVATE.)

2. ALERT NOTIFICATIONS CAN BE IN CONJUNCTION WITH (BUT NOT A REPLACEMENT FOR) EEI MESSAGES.

ALERT MESSAGE FORMAT:

O Z MO YEAR (DTG)  
 FM NNN0XXX XX (STATION INITIATING ACTION) (ST)  
 TO NNN0GXX XX (STATE DIRECTOR) (ST)  
 NNN0GXX TWO XX (STATE ECOM ASSISTANT ) (ST)  
 INFO NNN0ASE AZ  
 NNN0ASE ONE OR  
 NNN0ASE TWO OR  
 NNN0ASX XX (REGION DIRECTOR) (ST)  
 NNN0ASX TWO XX (REGION ECOM ASSISTANT) (ST)  
 BT

**PAC AREA ALERT EMAIL LIST**

1. TO SEND AN EMAIL ALERT TO ALL PAC AREA MEMBERS IN YOUR REGION WITH AN EMAIL ADDRESS OF@NAVYMARS.ORG
2. SEND YOUR ALERT TO:  
 r10ecom@navymars.org  
 r9ecom@navymars.org  
 r8ecom@navymars.org

UNCLAS

SUBJ: ALERT NOTIFICATION

1. (SITUATION-CITE ALERTING CONDITION I, II, III)
2. (AREAS AFFECTED)
3. (ANTICIPATED PERIOD OF TIME)

BT

SEND VIA WINLINK TO THE STATE MAILBOX FOR EACH STATE INDICATED ABOVE.

3. CONDITIONS AND ACTIONS TO BE TAKEN ARE AS FOLLOWS:

A. COMMUNICATION CONDITION THREE (COMCON III)

DESCRIPTION: AN EMERGENCY SITUATION IS EXPECTED TO DEVELOP WITHIN 48 HOURS.

ACTION REQUIRED: ALERT NMC MARS STATIONS TO MONITOR PRIMARY FREQUENCIES AS FEASIBLE.

TAKE PRELIMINARY PRECAUTIONS, I.E. TEST EMERGENCY POWER, AND LOCATE ANY ESSENTIAL ITEMS.

CONTINUE NORMAL ROUTINES COMMENSURATE WITH ITEMS ABOVE.

B. COMMUNICATION CONDITION TWO (COMCON II)

DESCRIPTION: AN EMERGENCY SITUATION ANTICIPATED WITHIN 24 HRS.

ACTION REQUIRED: EFFECT ALL MEASURES NECESSARY TO ACTIVATE ON SHORT NOTICE.

CURTAIL ROUTINE AS NECESSARY FOR READINESS. MONITOR PALE NET.

C. COMMUNICATION CONDITION ONE (COMCON I)

DESCRIPTION: AN EMERGENCY SITUATION IMMINENT.

ACTION REQUIRED: SUSPEND ALL NORMAL OPERATIONS AS WARRANTED.

ACTIVATE STATE EMERGENCY NET. CHECK INTO PALE NET.

D. COMMUNICATION CONDITION ZERO (COMCON 0)

DESCRIPTION: AN EMERGENCY SITUATION EXISTS.

ACTION REQUIRED: IDENTICAL TO COMCON ONE.

4. THE ALERT MESSAGES WILL BE PASSED ON TO THE RDN TRAFFIC REPRESENTATIVES FOR DISTRIBUTION ON THE APPROPRIATE NETS (UNLESS NETS HAVE BEEN SUSPENDED) AND REPEATED UNTIL AN ALERT CANCELLATION MESSAGE IS RECEIVED OR ACTIVATION OCCURS.

7

ESSENTIAL ELEMENTS OF INFORMATION (EEI)

8

EEI REPORTS ARE PROBABLY THE MOST IMPORTANT ECOM MESSAGES NAVMARCORMARS MEMBERS HANDLE BEFORE, DURING AND AFTER AN EMERGENCY/ DISASTER SITUATION.

EEI REPORTS PROVIDE ESSENTIAL INFORMATION TO THE DEPARTMENT OF MILITARY SUPPORT (DOMS) IN THE PENTAGON. EEI MESSAGE SHOULD ALWAYS BE SENT AS AN IMMEDIATE (O) PRECEDENCE FOR AN ACTUAL EVENT OR AN EXERCISE.

THE FOLLOWING FORMAT SHALL BE USED.

SEND ACTUAL EVENT EEI MESSAGES BY WINLINK

VIA TRAFFIC NET	SEND VIA WL2K	WL2K ADDRESSING
SEND MSG WITH THIS	PLACE THIS HEADER AND MSG	WL2K MSG TO/CC LINES
HEADER THRU THE LAST BT	TO FINAL BT IN THE TEXT	TO: <u>AAN3EEI@WINLINK.ORG</u>
MESSAGE FOLLOWS	OF THE WL2K MESSAGE	<u>NNN0ASA@WINLINK.ORG</u>
RELAY IMMEDIATE TIME		<u>NNN0ASZ@WINLINK.ORG</u>
O (DTG)Z (MO) (YEAR)	O (DTG)Z (MO) (YEAR)	CC: <u>NNN0ASE@WINLINK.ORG</u>
FM NNN0 (CALL) (ST)	FM NNN0 (CALL) (ST)	<u>NNN0EHG@WINLINK.ORG</u>
TO AAN3EEI VA	TO AAN3EEI VA	<u>NNN0 (REG DIR)@WINLINK.ORG</u>
NNN0ASA VA	NNN0ASA VA	<u>NNN0 (REG TWO)@WINLINK.ORG</u>
INFO NN0ASZ GA	NNN0ASZ GA	<u>NNN0 (ST DIR)@WINLINK.ORG</u>
NNN0ASE SCA	INFO NNN0ASE SCA	<u>NNN0 (ST TWO)@WINLINK.ORG</u>
NNN0ASE ONE (ST)	NNN0ASE ASE (ST)	SUBJ://MARS 0/ACTUAL EEI OR
NNN0ASE TWO (ST)	NNN0ASE ONE (ST)	SUBJ://MARS 0/EXERCISE EEI
NNN0 (REGION DIR) (ST)	NNN0 (REGION DIR) (ST)	<u>DO NOT SEND EXERCISE EEI'S</u>
NNN0 (REGION) TWO (ST)	NNN0 (REGION) TWO (ST)	<u>TO AAN3EEI@WINLINK.ORG</u>
NNN0 (ST DIR) (ST)	NNN0 (ST DIR) (ST)	
NNN0 (ST) TWO (ST)	NNN0 (ST) TWO (ST)	
BT	BT	
UNCLAS ACTUAL INCIDENT	UNCLAS ACTUAL INCIDENT	
(USE 'MARS EXERCISE' IN PLACE OF ACTUAL INCIDENT FOR EXERCISES)		

TEXT PORTION OF AN EEI FOLLOWS:

SUBJ: EEI REPORT(UPDATE NR\_\_)

- 1. REF (USE APPROPRIATE EVENT IDENTIFIER FROM BELOW) / (STATE)
- A. (INCIDENT AND LOCATION) (WHAT, WHERE AND WHEN: SPECIFIC LOCATION OF INCIDENT AND TIME OF OCCURRENCE)
- B. (STATUS OF EMERGENCY MEDICAL FACILITIES) (HOSPITALS/CLINICS OPERATIONAL DESTROYED, PARTIALLY DESTROYED. WHAT IS AVAILABLE IN THE AREA, ETC.)
- C. (LOCAL TRANSPORTATION STATUS) (ACCESSIBILITY OF INCIDENT AREA: ROADS, BRIDGES, AIRPORTS, RAILWAYS, ETC.)
- D. (WHAT WAS DAMAGED)BUILDINGS, CARS, FACILITIES, NUMBER OF KNOWN INJURED, ETC
- E. (AREA UTILITY STATUS) (AREAS WITHOUT WATER, ELECTRICITY, ETC.)
- F. (LOCAL COMMUNICATIONS STATUS) (STATUS OF LOCAL TELEPHONE,RADIO, TV, ETC AND IF UNAFFECTED, LIMITED OR UNAVAILABLE)
- G. (SOURCE OF INFORMATION AND WHEN RECEIVED) (PERSONAL OBSERVATION, TV, RADIO, SCANNER, ETC. IF PERSONAL, INCLUDE MARS CALL SIGN. IF DISASTER OFFICIAL,INCLUDE NAME AND AGENCY. IF TV/RADIO STATION, GIVE CALL SIGN AND LOCATION)
- H. (REMARKS AND OTHER PERTINENT INFORMATION) (IF NONE, SO STATE)

ACTUAL INCIDENT (USE MARS EXERCISE FOR EXERCISES IN PLACE OF ACTUAL INCIDENT)

BT

OPNOTE (IF NEEDED)

NNNN

EEI EVENT IDENTIFIER (LINE 1 OF THE EEI MSG)

(PARTIAL LIST/REFER TO NTP8 FOR COMPLETE LIST)

AIR CRASH	FALLEN STAR	POWER OUTAGE (MAJOR)	DARK DAY
BIOLOGICAL EVENT	BAD BUG	SEARCH/RESCUE	SECURE HAVEN
BOMBING INCIDENT	LOUD BANG	SHIP WRECK/INCIDENT	DEEP SEA
BRIDGE DAMAGE/LOSS	LOST SUPPORT	SEISMIC SEA WAVE	TSUNAMI
CHEMICAL SPILL	POISONED GROUND	SNOW STORM (MAJOR)	WHITE BLANKET
CIVIL UNREST/RIOT	BAD MAGIC	TORNADO	VIOLENT TWISTER
COMMS LINK DOWN	LOST COMM	TRAIN WRECK/DERAIL	BROKEN TRACK
DAMAGING HAIL	FALLING ICE	VOLCANO	BRAZEN BRIMSTONE
EARTHQUAKE	ROLLING THUNDER	WATERDAM BROKE/DAMAGED	FAST WATER
FLOOD	TALL WATER	TERRORIST THREAT	HIDDEN SHADOW
FOREST FIRE	SCORCHED EARTH	SPECIFIC AGENCY SUPPORT	
GAS LEAK/EXPLOSION	HOT AIR	FEMA	FEDERAL RESPONSE
HURRICANE	HOWLING WIND	JCS	JOINT LIONS
ICE (SEVERE ON HWY)	BLACK ICE	NCS	TOP COVER
INTERSTATE BLOCKED	BLOCKED LANE	NDMS	MEDICAL LINK
NUCLEAR	NUCLEAR GREYSTONE	NG & RESERVE	CIVIL COVER
OIL SPILL (WATER)	DARK WATER	SHARES	COMMON FORTUNE

IF NO IDENTIFIER LISTED USE PLAIN ENGLISH

EEI NOTES:

- 1. INFORMATION CONTAINED WITHIN PARENTHESES IS ADDED BY THE MEMBER WHEN CONSTRUCTING THE EEI MESSAGE, FOR ITEMS 1B, 1C, 1D, 1E, AND 1, USE OPERATIONAL IF THIS TOPIC IS KNOWN NOT TO HAVE BEEN AFFECTED BY THE INCIDENT OR UNKNOWN IF NOT KNOWN. USE N/A FOR ITEMS NOT BEING REPORTED IN THE EEI REPORT. FOR EXAMPLE, IF THE EEI REPORT IS FOCUSED ON ITEM 1F, COMMUNICATIONS STATUS, THEN N/A WOULD BE ENTERED FOR ITEMS 1B, 1C, 1D, AND 1E.

2. WHEN SENDING VIA SSB VOICE INFORM THE RECEIVING STATION IF THE MESSAGE HAS BEEN SENT BY ANY OTHER MODES. SUBMIT ONLY ACTUAL EVENT EEI MESSAGES BY WINLINK TO THE FOLLOWING ADDRESSEES

(ALL LOWER CASE)

TO: AAN3EEI@WINLINK.ORG (EXERCISE EEI'S ARE NOT SENT TO AAN3EEI)  
NNNOASA@WINLINK.ORG ( SUBJ LINE: //MARS O/ACTUAL EEI )  
NNNOASZ@WINLINK.ORG

CC: **LIST ALL THE MSG INFO LIST USEING ONLY "@WINLINK.ORG" ADDRESSING.**

3. THE SUBJECT LINE SHOULD BE: ACTUAL EEI /CITY (OR COUNTY) AND STATE WHERE THE EVENTS TOOK PLACE.

4. SUBMIT THE EEI MESSAGE INTO THE WL2K, PASS TO A MARS STN THAT HAS EITHER WL2K/ CAPABILITY OR THE PA1E NET BY SENDING THE ENTIRE EEI MESSAGE FROM THE O\_\_Z\_\_ (DTG) LINE THRU THE FINAL BT LINE WITH ZEN ON THOSE WHO RECEIVED THE EMAIL COPY.

5. DO NOT REPEAT/REPORT RUMORS. CHECK OUT ANY RUMORS AND USE RELIABLE KNOWN SOURCES FOR INFORMATION. BEWARE, MEDIA REPORTS HAVE BEEN KNOWN TO BE INACCURATE.

6. EEI MESSAGES MAY ALSO BE GENERATED ON LINE BY GOING TO THE NATIONAL NMCM HOME PAGE ( HTTP://NAVYMARS.ORG ) SELECT EEI FORM IN THE LEFT COLUMN, SELECT AND FILL OUT THE FORM APPLICABLE TO YOUR SITUATION.

7. SEND EXERCISE EEI MSGS

TO: NNNOASA@WINLINK.ORG  
NNNOASZ@WINLINK.ORG

CC: (AREA/REGION/STATE STAFF) @WINLINK.ORG

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ACTIVATION OF EMERGENCY NET

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1. PRIMARY FREQUENCY FOR LOCAL ECOM OPS WILL BE THE LOCAL REGION/ STATE TRAFFIC NET FREQUENCY. IF THERE IS A TRAFFIC NET IN PROGRESS ON THE FREQUENCY THEN IT SHOULD BE SECURED AND AN ECOM NET STARTED IN ITS PLACE. IF THERE IS ALREADY AN ECOM NET ON FREQUENCY (FROM ANOTHER STATE/REGION) THEN A NEARBY ALTERNATE FREQUENCY SHOULD BE USED, ADVISING THE OTHER NCS TO DIRECT CHECK-INS TO THAT FREQUENCY.

2. UPON THE ACTIVATION OF ANY ECOM NET THE NCS OF THE PACIFIC AREA PA1E NET SHOULD BE NOTIFIED SO THEY CAN DIRECT MEMBERS/TRAFFIC TO THE APPROPRIATE NET/FREQUENCY.

3. IT IS THE RESPONSIBILITY OF THE REGION/STATE ECOM ASSISTANT TO FACILITATE ROTATION OF NCS AS NECESSARY.

4. THE INITIAL MESSAGE REQUEST FOR EMERGENCY COMMUNICATIONS SUPPORT WILL BE INITIATED BY THE MARS MEMBER THAT ACTIVATED THE ECOM PLAN AND ESTABLISHED THE NET.

5. ANY MEMBER WHO FINDS THAT TELEPHONE SERVICE HAS BEEN DISRUPTED IS RESPONSIBLE FOR MONITORING THE PRIMARY REGION MARS FREQUENCY FOR THE DURATION OF THE OUTAGE AND/OR EMERGENCY.

6. DURING THE EMERGENCY:

(A) MAINTAIN A LISTENING WATCH ON ACTIVE CIRCUITS.

(B) CHECK IN WHEN NCS OPENS THE NET. DO NOT TUNE, TEST OR TRANSMIT WITHOUT PERMISSION OF NCS.

(C) NOTIFY NCS IF YOU MUST LEAVE THE NET

(D) AVOID SPECULATIVE COMMENTS, RUMORS OR STATEMENTS.

(E) DO NOT DISCLOSE INFORMATION GAINED FROM MILITARY CIRCUITS EXCEPT AS AUTHORIZED.

(F) ACCURACY IS PARAMOUNT.

7. OUR MISSION IS TO SEND AND RECEIVE MESSAGES. THE ATTAINMENT OF RELIABILITY, SPEED AND SECURITY DEPENDS, TO A LARGE EXTENT, UPON THE OPERATOR. BE PROFESSIONAL AND MAINTAIN CIRCUIT DISCIPLINE.

PAIE NET OPERATIONAL NOTES,

1. THE PAIE NET OPERATES TO PROVIDE ANY STATION FROM ANY AGENCY AUTHORIZED TO USE THE NATIONAL CALLING FREQUENCIES OF 7382.5 KHZ, 4042.5 KHZ, AND 14385 KHZ AN ACTIVE EMERGENCY COMMUNICATIONS NET TO REACH A KNOWN STATION TO PASS ANY EMERGENCY MESSAGES, TRAINING IN ECOM TECHNIQUES OR A FORUM FOR THE EXCHANGE OF ECOM IDEAS.
2. ANY NET CONTROL STATION ASSIGNED TO THE PAIE NET IS THUS AUTHORIZED TO USE THE ECOM MATERIALS IN NTP8 OR PAOG INCLUDING THE PAIE 'TOOL KIT' & ECOM BCST'S TO ACCOMPLISH THIS TRAINING AND FORUM EVEN WHEN IN COMMUNICATION ACROSS STATE, REGION, AREA LINES.
3. ANY PACIFIC AREA NMCM STATION CALLING ON THE PAIE FREQUENCIES AND NOT FINDING AN ACTIVE NET CONTROL IS AUTHORIZED TO CALL THE PAIE NET AS A MONITORING STATION, NOT AS NET CONTROL. THE LACK OF FINDING AN ACTIVE NET CONTROL MAY BE DUE TO POOR PROPAGATION, OR NO STATION VOLUNTEERING OR ASSIGNED FOR THAT WATCH PERIOD.
4. ANY PACIFIC AREA NMCM STATION SENDING AN ECOM MESSAGE OF ANY KIND IS ASKED TO FORWARD VIA ANY MEANS A 'BRIEF SUMMARY' OF THAT MESSAGE TO THE PAIE NCS FOR THEIR AWARENESS, ENABLE THEM TO SUPPORT LOCAL STATE/REGION ECOM ACTIVITIES & USE IN MT63 BEACON.

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PAIE QUICK REFERENCE CARD (TRIM, COVER W/CLEAR SHELPAPER FOR REFERENCE) 14

1. NET CALL UP SCRIPT:  
PAIE PAIE THIS IS NNN0 (YRCALL) NNN0 (YRCALL) OVER (FREE NET & ABBREVIATED CALLSIGNS ARE PERMITTED)  
PRIMARY FREQ: 7382.5, 4042.5, 14385.0 (ALL USE)  
ALTERNATE'S: NFM/NCK/NNG (ALL MINUS 1.5)
2. CHECK LIST FOR WHEN AN EMERGENCY STATION CALLS
  - A. RESPOND WITH ABC (STN CALL) THIS IS NNNODEF  
HOW MAY I ASSIST YOU? OVER
  - B. COMPILE THE FACTS: WHO THEY ARE?  
WHERE THEY ARE?  
WHAT THEY NEED?
  - C. CALL YOUR BACK UP OR NET MANAGER TO GET THEM ON FREQUENCY  
NNN0\_\_\_\_-\_\_\_\_-\_\_\_\_ OR NNN0EHG 503-319-4944 (24 HR. CELL PHONE)  
(PHONE NUMBER)
  - D. REASSURE CALLING STATION THAT HELP IS ON THE WAY.  
POSSIBLY GET FROM THEM:  
WHAT KIND OF STATION THEY HAVE,  
WHAT THEIR EXPERIENCE/CAPABILITIES ARE/ETC.
  - E. MOVE BACK UP & CALLING STN TO ALT FREQ OR PRIMARY TRAFFIC NET FREQ  
AND CALL ST/REGION 1E NET ON THERE  
.
  - F. RESUME YOUR REGULAR DUTIES UNTIL RELIEVED.
  - G. FILE REPORTS.

ANY EMERGENCY NET NCS CHECK LIST (TRIM, COVER FOR REFERENCE)  
NET CONTROL FOR THE NAVY

- PA1E PA1E THIS IS NNN0XXX NNN0XXX OVER  
(ABBREVIATED CALL SIGNS & FREE NET ARE ALLOWED)
2. RESPOND TO ANY EMERGENCY CALLING STATIONS NEEDS.
  3. DESIGNATE A MESSAGE HANDLING STATION TO:  
(VIA SCD WL2K, VOICE NET)
    - A. SEND EMERGENCY MESSAGES
    - B. FILE AN IMPLEMENTATION MESSAGE
    - C. FILE ANY EEI MESSAGES
    - D. FILE ANY SITREP MESSAGES
  4. REMAIN AS NCS UNTIL RELIEVED
  5. FILE CLOSING REPORTS: NET REPORTS/FINAL SITREP REPORT
  6. NOTE: (X XX 1E FOR USE ON ANY REGION/STATE ECOM NET)  
X=8 REGION EIGHT X=9 REGION NINE X=0 REGION TEN  
XX=STATE/REGION NET. (I.E. 8X1E 9A1E 0X2E)
  7. DEPENDING ON THE TYPE OF EMERGENCY COMMUNICATIONS SERVICES REQUESTED,  
INITIAL ATTEMPTS FOR REGION/STATE ECOM NETS SHALL BE ON LOCAL REGION OR  
STATE TRAFFIC NET FREQUENCIES. ANY TIME AN ECOM NET IS ACTIVATED CHECK INTO  
THE PA1E NET AND INFORM THE NCS.

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IMPLEMENTATION REPORTS

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UPON IMPLEMENTATION OF ANY PORTION OF THE ECOM PLAN BY A MARS MEMBER.  
THE IMPLEMENTATION REPORT FORMAT IS:

O Z YEAR (DTG)  
FM NNN0(CALL) (STATION INITIATING ACTION) (ST)  
TO NNN0ASA VA  
NNN0ASZ GA  
NNN0ASE AZ  
NNN0ASE ONE OR  
NNN0ASE TWO OR  
NNN0AS(REGION DIRECTOR) (ST)  
NNN0AS (REGION)TWO (ST)  
NNN0G (STATE DIRECTOR) (ST)  
NNN0G (STATE) TWO (ST)

BT

UNCLAS

SUBJ: EMERG COMM IMPLEMENTATION

1. (CIRCUMSTANCES REQUIRING IMPLEMENTATION)
2. (MARS SERVICES REQUESTED, YES/NO. IF YES, NAME, TITLE, AGENCY OF REQUESTER,  
AND PHONE NUMBER.
3. (ADDITIONAL COMMUNICATION SUPPORT REQUIRED, YES/NO. IF YES, TO WHAT EXTENT  
AND SCOPE.) (NOTE: IF ADDITIONAL SUPPORT IS INDICATED WITHIN:
  - A. STATE - ACTION TO BE TAKEN BY STATE DIRECTOR
  - B. REGION - ACTION TO BE TAKEN BY DIRECTOR
  - C. OUTSIDE REGION - ACTION TO BE TAKEN BY CHIEF, NAVMARCORMARS

BT

NNNN

NOTE: ALTHOUGH NOT A REQUIREMENT, IT IS A GOOD IDEA TO NOTIFY ADJACENT STATES.  
THEY MAY BE OF ASSISTANCE IN PROVIDING RELAYS.

REPORTS - SITUATION REPORTS (SITREPS)

**REMEMBER SITREPS ARE ABOUT MARS MEMBER ACTIONS WHERE EEI REPORTS ARE GENERAL INFORMATION ABOUT THE INCIDENT.**

DURING THE EMERGENCY, SITUATION REPORTS (SITREPS) SHALL BE SENT (OR INITIATED) BY THE ON-SCENE MARS STATION EVERY SIX HOURS OR MORE FREQUENTLY. THE LAST SITREP WILL BE THE FINAL SITREP. EACH PARAGRAPH WILL CONTAIN THE APPROPRIATE INFORMATION OR ONE OF THE FOLLOWING TERMS:

NO CHANGE - INDICATES SAME AS PREVIOUSLY REPORTED.

NEGATIVE - INDICATES NOT APPLICABLE/BEING USED OR NOTHING TO RPT.

NOT AVAILABLE - INDICATES INFORMATION NOT AVAILABLE AT PRESENT.

THE SITREP MESSAGE FORMAT IS:

P 123456Z MON YEAR (DTG)

FM NNN0XXX XX (STATION INITIATING ACTION) (ST)

TO NNN0GXX XX (STATE DIRECTOR) (ST)

NNN0ASX XX (REGION DIRECTOR) (ST)

NNN0ASE AZ

NNN0ASE ONE OR (ST)

INFO NNN0GXX TWO XX (STATE ECOM ASSISTANT) (ST)

NNN0ASE TWO XX (ST)

NNN0ASX TWO XX (REGION ECOM ASSISTANT) (ST)

BT

UNCLAS

SUBJ: SITREP ONE (OR, TWO, THREE, ETC.)

1. (BRIEF SUMMARY OF SITUATION IN DISASTER AREA)
2. (DESIGNATOR OF NET AND NUMBER OF STATIONS PARTICIPATING IN THE EMERGENCY)
3. (BRIEF ADVISORY INFO, RECOMMENDATIONS, NEEDS, ETC.)
4. (PROGNOSIS FOR IMMEDIATE FUTURE)
5. (OTHER PERTINENT INFO: PROBLEMS, EQUIPMENT PERFORMANCE ETC.)

BT

NNNN

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ECOM MARS MESSAGE HANDLING TIPS

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1. ALL ECOM MESSAGES ARE TO BE SENT VIA WL2K AS WELL AS BEING FORWARDED TO THE PA1E NCS DIRECTLY OR VIA RELAY AS SOON AS POSSIBLE FOR USE IN THE PA1E MT63 BEACON ALERTS. CHECK FOR CORRECT USE OF 'ZEN' FROM EXAMPLES SHOWN IN THE PACIFIC AOG EEI MSG FORMATS.

2. WL2K MSG SENDING TIPS

LIST ALL CALL SIGNS IN THE "TO & CC" LINES OF THE MSG FORM

Place the entire MARS formatted message DE line thru NNNN in the text block of the form.

ALWAYS US "//MARS ?/" (? = SEE PRECEDENCE LIST BELOW)

CONNECT TO A RMS VIA HF PACTOR. VHF PACKET OR TELNET AND SEND YOUR MSG AS YOU WOULD ANY EMAIL MSG.

3. MESSAGE PRECEDENCE REFERENCE

FLASH	Z	AS FAST AS POSSIBLE
IMMEDIATE	O	30 MIN - 3 HRS (1 OSCAR)
PRIORITY	P	18 - 24 HRS
ROUTINE	R	24 - 48 HRS

4. SENDING AN ECOM MESSAGE VIA A TRAFFIC NET

CHECK IN WITH: I LIST ONE (PRECEDENCE) FOR MULTI AND OUTBOUND  
(OR) THE CALL AND STATE (if just one station)

NCS WILL THEN ASK FOR THE STATIONS IN YOUR LIST

IE: NNN0AS0, NNN0AS0 TWO, NNN0ASE TWO, NNN0GBP, NNN0GBP TWO AND NNN0ASE ONE AZ.

B. WHEN DIRECTED BY THE NCS CALL THE STATIONS THEY LISTED IN THAT ORDER.

IE: NNN0AAA, NNN0BBB, NNN0CCC THIS IS NNN0XXX ONE (PRECEDENCE) OVER.

C. AFTER THEY RESPOND, CALL THEM AGAIN IN THAT SAME ORDER INCLUDING RELAY INSTRUCTIONS PER THIS EXAMPLE. NOTE THAT YOU DO NOT NEED TO LIST THE STATE DESIGNATORS HERE AS THEY ARE IN THE HEADER OF THE MSG. LISTING ONLY THE ADDEE'S EACH IS TO RELAY THE MSG TO.

NNN0AAA RELAY NNN0ASA NNN0ASZ NNN0ASE ONE NNN0ASE TWO

NNN0WWW (THIS MAY BE THE TRAFFIC REP)

NNN0BBB RELAY NNN0AS0 (THIS WILL A STA WHO GUARDS FOR NNN0AS0)

NNN0CCC RELAY NNN0GBP (THIS WILL BE A STA WHO GUARDS FOR NNN0GBP)

MESSAGE PRECEDENCE DTG THRU THE FINAL BREAK.

NOTE 1: THOSE RECEIVING THE MSG WILL ADD A ZEN/ TO ALL ADDEES

LISTED BUT THE ONE(S) THEY ARE TO RELAY TO.

NOTE 2: IF AN ACTUAL EVENT EEI MSG HAS NOT BEEN SENT VIA WL2K YOU INCLUDE AAN3EEI IN THE ADN REP RELAY INSTRUCTIONS INDICATING THEY ARE TO SEND IT VIA WL2K ALSO.

5. TO SEND A MESSAGE VIA ANY DIGITAL MODE ON A TRAFFIC NET
  - A. REPLACE ALL'RELAY' PROWORDS WITH A 'T' PROSIGN (IE: NNN0CCC T NNN0AS0)
  - B. SEND THE ENTIRE MESSAGE FROM DE LINE THRU THE FINAL BT
6. BASIC DIGITAL OFFSET SHIFTS (FROM MATRIX FREQUENCY LIST)

SOUND CARD = FOR ALL DIGITAL HF MODES USE -1.5KHZ OFFSET FROM THE ASSIGNED/MATRIX FREQUENCY

PK232 TNC = FOR ALL DIGITAL AFSK HF MODES USE -2.21KHZ OFFSET FROM THE ASSIGNED/MATRIX FREQUENCY (- .71 FROM WINDOW FREQ)

KANTRONIC TNC = FOR ALL DIGITAL HF MODES SET SHIFT = MODEM, MARK = 1400, SPACE = 1600, AND USE -1.5KHZ OFFSET FROM THE ASSIGNED/MATRIX FREQUENCY

NOTE:IF WORKING ON A LSB (IE: ARMY MARS) DIGITAL FREQUENCY, REVERSE THE OFFSETS.
7. WL2K GROUP ADDRESSING:

NNNOR = REGION 10

NNN9R = REGION 9

NNN8R = REGION 8

NNNXAA = STATE (NNN(REGION) (LAST 2 OF STATE CALL) EX: NNN9AF = SCA

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INSTRUCTIONS FOR SHARES/OTHER MARS SERVICE AND AMATEUR REFILE MSG HANDLING 20

1. TO FILE A SHARES MESSAGES ON MARS NETS.
  - A. ACCEPT THE SHARES MESSAGE AS SENT (SAMPLE SHARES MESSAGE AS RECEIVED):

R 131628Z MAR 2004 ZYJ

FM JOE BANK FAA TOWN VA 757-887-4494

TO JOHN DOE FBI SHAWNEE KS 800-800-8354

INFO JANE DOE FBI OKLAHOMA CITY OK 800-800-7900

BT

MESSAGE TEXT

ETC.
  - B. ADD 'DE' LINE, ZYJ (THIS IS A SHARES MESSAGE)  
INDICATING DELIVERY RESPONSIBILITY AND ENTER INTO THE WL2K
  - C. SAMPLE MESSAGE AS FORMATTED FOR MARS WL2K  
  

DE NNN0ASA 124

R 131628Z MAR 2004 ZYJ

FM JOE BANK FAA TOWN VA 757-887-4494

TO NOGBD/JOHN DOE FBI SHAWNEE KS 800-800-8354

INFO NOGBD/JANE DOE FBI OKLAHOMA CITY OK 800-800-7900

BT

MESSAGE TEXT

ETC.

NOTE: 'ZYJ' IS A SPECIAL 'Z' SIGNAL MEANING 'THIS IS A SHARES MESSAGE'
2. ARMY/AIR FORCE MARS TO NMC MARS FORWARD AS RECEIVED EXCEPT FOR
  - A. DELETE GROUP COUNT
  - B. ADD UNCLAS
3. FOR NMC MARS TO ARMY/AIR FORCE MARS FORWARD AS RECEIVED, THEY WILL ALTER AS NEEDED FOR THEIR SYSTEM.

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4. AMATEUR TO MARS TRAFFIC REFILE  
 A. SAMPLE MESSAGE AS RECEIVED:  
 NR56 ROUTINE W4SSN CK7 NORFOLK VA 2100Z MAR 15  
 WELDON RYE RMCS USN  
 OPERATIONS DIV NAVCOMMSTA SAN FRANCISCO  
 STOCKTON CA 95283 286 262 0670 BT  
 YOUR MESSAGE RECEIVED X SEE YOU SUNDAY BT HAROLD

B. SAMPLE MESSAGE AS FORMATTED FOR MARS WL2K  
**Enter the State WL2K call in the message header "TO" lines**  
**Enter in the subject line: //mars r/amateur relay**  
**Enter the message as received in the WL2K message TEXT blank**  
 DE NNN0(CALL)(SERIAL #)  
 R 152100Z MAR 1997  
 FM NNN0(YR CALL) (ST)  
 TO RMCS WELDON RYE USN  
 OPERATIONS DIV NAVCOMMSTA SFRAN  
 STOCKTON CA 95283  
 286-262-0670  
 BT  
 1. 56 R W4SSN 7 NORFOLK VA 2100Z MAR 15  
 2. YOUR MESSAGE RECEIVED X SEE YOU SUNDAY  
 3. HARLOLD SENDS  
 BT  
 NNNN

C. TO REFORMAT A AMATEUR TO MARS MSG BACK TO AMATEUR DO THE FOLLOWING:  
 SEND THE MSG FOLLOWING THE DE NNN0(YR CALL)(SERIAL #)  
 UP TO THE NNNN (CR) VIA WHATEVER AMATEUR CHANNELS AVAILABLE  
 DO NOT MESS WITH ANY AMATEUR HANDLING INSTRUCTIONS, CHANGE ANY PRECEDENCE  
 INFORMATION OR ADD ANY PUNCTUATION

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THE PA1E NET WILL BROADCAST AN MT63 ECOM BEACON 22  
 A. A MT63 BEACON ON 14383.5 AND 7381.0 EVERY 30 MINUTES OF NET OOPERATION.  
 THIS BEACON IS DESIGNED TO OFFER MEMBERS AND OTHER AUTHORIZED STATIONS AN  
 OPPORTUNITY TO CHECK PROPAGATION AND BE INFORMED OF VITAL ECOM INFORMATION  
 FOR THE PACIFIC AREA.  
 B. PACIFIC AREA MEMBERS ARE ASKED TO RELAY A BRIEF SUMMARY OF ECOM SITUATIONS  
 AND MESSAGES TO THE PA1E NCS, VIA ANY MEANS AVAILABLE, TO BE INCLUDED IN  
 THIS BEACON.  
 C. ALL MEMBERS, ESPECIALLY AREA/REGION/STATE STAFF DIRECTORS, ASST DIRECTORS  
 AND ECOM ASSISTANTS, ARE ENCOURAGED TO MONITOR THIS BEACON ON A REGULAR  
 BASIS.  
 D. SAMPLE BEACON TEXT DESIGNED TO RUN IN MIXW AUTO BEACON.

PA1E PA1E DE NNN0EHG NNN0EHG  
 PA1E PA1E DE NNN0EHG NNN0EHG  
 BT  
 <DATE TIME GROUP> SUMMARY OF AREA ECOM CONDITIONS FOLLOWS  
 1. PROPAGATION INDEX: SFI:105 frm 97 A:18 K:3 frm 2 2100 05 Jun Frcst: No SWX  
 storms are expected next 24h.  
 2. A BAND OF FLOOD WATCHES AND HIGH WIND ALERTS STRETCHES ACROSS S.AZ,. NV, UT  
 AND NW CO.  
 3. A RED FLAG FIRE WARNING FOR N AZ.  
 4. THERE ARE 9 LARGE FIRES ACROSS THE PAC AREA TODAY.  
 BT  
 AR  
 <RXANDCLEAR>

COMMON Q AND Z SIGNALS

ZKA I am NCS  
ZKB This is a DIRECTED NET  
ZUG Negative  
ZUG ZKB This is a FREE NET  
ZKE Checking into net  
ZBO I have traffic  
QRU I have NO traffic  
QRZ DRILL MESSAGE (follows the DTG)  
QIC Establish communication with ...  
INT Query (Ask/Request)  
INT QIC May I establish communications with ...  
INT QRZ Who is calling  
INT ZKJ Request permission to Secure  
ZKJ1/ZKJ2 Closing down/I am closing down  
INT ZBD Send again  
AA Unknown Station  
ZGN Nothing heard  
K Over  
AR Out  
R Roger  
AS Wait  
T Relay  
ZUE Affirmative  
ZEU DRILL MESSAGE

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MT 63 NET OPERATION Examples:

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To call a DIRECTED net:  
NNNOALS NNNOALS DE NNN0XXX NNN0XXX ZKA PA1E ZKB K  
To declare a FREE NET:  
NNNOALS NNNOALS DE NNN0XXX NNN0XXX ZKA PA1E ZUG ZKB AR  
To secure the net:  
NNNOALS NNNOALS DE NNN0XXX NNN0XXX ZKA PA1E ZKJ2 AR  
To Check in w/ NO TRAFFIC (WITH TRAFFIC):  
NNNOXXX NNNOXXX DE NNN0YYY NNN0YYY ZKE QRU (or ZBO) K  
To Acknowledge Checkins: NNN0YYY NNN0ZZZ DE NNN0XXX R AR  
To Request securing:  
NNNOXXX NNNOXXX DE NNN0YYY NNN0YYY INT ZKJ K  
Granting Permission to secure: NNN0YYY DE NNN0XXX ZKJ1 AR  
To request permission to communicate: NNN0XXX DE NNN0YYY INT QIC NNN0AAA K  
To grant permission to communicate: NNN0YYY DE NNN0XXX QIC NNN0AAA AR  
To communicate: NNN0XXX DE NNN0YYY (bla bla bla) K (or AR)

EVENT INFORMATION SITES:

TSUNAMI <http://tsunami.gov/>  
EARTHQUAKE <http://earthquake.usgs.gov/>  
NWS/NOAA/WX <http://www.nws.noaa.gov/>  
WEATHERBUG [www.WeatherBug.com](http://www.WeatherBug.com)  
SPACE WX <http://hfradio.org/propagation.html>

Propagation index:

The higher the A index, the Worse conditions have been  
The higher the B index, the Worse conditions are now  
Aurora high is good for VHF/low is good for HF  
GMF gives the trend for the future  
HF IDEAL = A<7, K<3, Aurora<5, GMF quiet







MARS GRAM MSG FORMATTING INSTRUCTIONS

FINISHED MARS GRAM EXAMPLE	FORMATTING INSTRUCTIONS
DE NNN0EHG 046	DE (yrcall&(msg no.))
R 162301Z JUN 02	R (dtg)
FM MS CHRIS JONES FULTON ID/NNN0BAJ ID	FM (from msg form)
TO SA MARK HART PENSACOLA FL/NNN0AIG FL	TO (from msg form)
BT	BT
UNCLAS	UNCLAS
GLAD YOU ARE OK.	(MSG TEXT =
WE HOPE TO SEE YOU SOON.	MAX OF 50 WORDS)
LOVE MOM	BT
BT	NNNN
NNNN	ZZZZ
ZZZZ	

TO SEND MSG VIA VOICE

1. CALL RECEIVING STA WITH "1 ROUTINE"
2. WHEN PROMPTED WITH "SEND YOUR MESSAGE"
  - START WITH "MESSAGE FOLLOWS"
  - END ALL ABOVE MESSAGE FROM "R (DTG)" THRU FINAL "BT"
  - END WITH "OVER"

TO SEND MSG VIA MT63

1. SEND ALL ABOVE "R (DTG)" THRU FINAL "BT"

SHARES FREQUENCIES

NATIONAL (PRIMARY) D 14396.5 / N 4618.0

NATIONAL (ALTERNATE) D 14487.0 / N 4618.0/MT63

X (NW) P D 9064.0 P N 4513.0 / A 5429.0

WL2K (WINLINK.ORG) (ALL USB) WINDOW FOR PK900

CMS MT / AAB8MT 6993.3

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ST	WL2K	MDS	ST	WL2K	MDS	ST	WL2K	MDS
AK	NNN0AB	GAB	LA	NNN6AU	GAU	OK	NNN6BO	GBO
AL	NNN4AA	GAA	MA	NNN1AX	GAX	OR	NNN0BP	GBP
AR	NNN6AD	GAD	MD	NNN3AW	GAW	PA	NNN3CP	GCP
AZ	NNN9AC	GAC	ME	NNN1AV	GAV	PR	NNN4CR	GCR
CA/N	NNN9AE	GAE	MI	NNN5AY	GAY	RI	NNN1AX	GAX
CA/S	NNN9AF	GAF	MN	NNN5AZ	GAZ	SC	NNN4BS	GBS
CO	NNN8AG	GAG	MO	NNN7BB	GBB	SD	NNN8BT	GBT
CT	NNN1AX	GAW	MS	NNN4BA	GBA	TN	NNN4BU	GBU
DE	NNN3AW	GAW	MT	NNN8BC	GBC	TX/N	NNN6BI	GBI
FL	NNN4AL	GAL	NC	NNN4BL	GBL	TX/E	NNN6BW	GBW
GA	NNN4AM	GCM	ND	NNN8BT	GBT	TS/S	NNN6BY	GBY
GU	NNN9CM	GAN	NE	NNN7BD	GBD	UT	NNN8BZ	GBZ
HI	NNN9AN	GAN	NH	NNN1AV	GAV	VA	NNN3CB	GBC
IA	NNN7AR	GAR	NJ	NNN2BG	GBG	VT	NNN1AV	GAV
ID	NNN0AO	GAO	NM	NNN6BI	GBI	WA	NNN0CC	GCC
IL	NNN7AR	GAR	NV	NNN9BE	GBE	WI	NNN5CE	GCE
IN	NNN5AQ	GAQ	NY/N	NNN2BJ	GBJ	WV	NNN3CD	GCD
KS	NNN7BD	GSF	NY/S	NNN2BK	GBK	WY	NNN8AG	GAG
KY	NNN4AT	GAT	OH	NNN5BN	GBN			