DR 500-1-2
CHANGE 1

DEPARTMENT OF THE ARMY
ST. LOUIS DISTRICT, CORPS OF ENGINEERS
210 TUCKER BOULEVARD, NORTH
ST. LOUIS, MISSOURI 63101-1986

LMSOD-E

Regulation
No. 500-1-2

15 June 1987

Emergency Management
NATURAL DISASTER RESPONSE PLANS

DR 500-1-2, 1 April 1986, is changed as follows:

1. Remove old pages and insert new pages as indicated below. New or changed material is indicated by an asterisk in the margin of the page at the beginning and end of the change.

Remove pages DR 500-1-2	Insert pages DR 500-1-2
1-1 and 1-2	1-1 and 1-2
2-1 thru 2-4	2-1 thru 2-4
3-1 thru 3-8	3-1 thru 3-8
4-1 and 4-2	4-1 and 4-2
5-1	5-1
C-3 thru C-8	C-3 thru C-8

2. File this change in front of the publication for reference purposes.

3. Delete colored separator sheet for DIVR 500-1-2.

DANIEL M. WILSON
COL, CE
Commanding

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LMSIM-SL (2)
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DEPARTMENT OF THE ARMY
ST. LOUIS DISTRICT, CORPS OF ENGINEERS
210 TUCKER BLVD., NORTH
ST. LOUIS, MISSOURI 63101-1986

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Regulation
DR 500-1-2

1 April 1986

Emergency Employment Of Army And Other Resources
ST. LOUIS DISTRICT
EMERGENCY COMMUNICATIONS PLAN (LMS ECP)

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DR 500-1-2
1 Apr 86

RECORD OF CHANGES

Change No.	Affected Pages	Date of Change	Date Entered

CHAPTER 1
INTRODUCTION

1-1. GENERAL. The St. Louis District Commander is responsible for this plan pertaining to the scope, policy and procedures for operating the communications facilities within the St. Louis District during peacetime disasters and under National Emergency Conditions as required by DIVR 500-1-1, DIVR 500-1-2 (ECP) and ER 500-1-1. Responsibilities, duties and functions prescribed in this District Regulation/Plan will be executed * through the EOC and Information Management (IM). *

a. Implementation. Provisions of this plan prescribes the use of all types of communications and will be implemented by the District Commander as required to support Natural Disaster Activities and the CDR, USACE, LMVD and SLD Continuity of Operations Plan, (COOP) (Classified CONFIDENTIAL).

b. Periodic Revision. Detailed procedures and guidance are provided in DR 500-1-1 Chapter 3.

c. Distribution. See Appendix K, DR 500-1-1.

This regulation supersedes DR 500-1-2, 1 April 1985.

DR 500-1-2
1 Apr 86

1-2. LEGEND. The following is a list of abbreviations and their meanings used throughout this plan:

AM. Amplitude Modulation

AV. Automatic Voice Network

CH. Channel (radio frequency)

FCC. Federal Communication's Commission

FM. Frequency Modulation

FTS. Federal Telephone Service

HF. High Frequency

HZ. Hertz (1 Cycle)

KHZ Kilo-Hertz (1000 Cycles)

KW. Kilo Watts (1000 watts)

LB. Low Band

LEG. Reference to: North, South & East independent radio systems

LSB. Lower side band

MARS. Military Amateur Radio Service

MHZ. Mega-Hertz (1 million cycles)

MTB. Mobile to Base Station

MTM. Mobile to Mobile (Vehicle to Vehicle) or (Thru radio repeater)

MTS. Mobile to St. Louis, radio operator via back-bone system

PL. Private Line "Motorola Trade Mark" (Tone codes)

SBRO Service Base radio operator

SSB. Single Side Band

TWX. Commercial Teletypewriter Service

UHF. Ultra High Frequency

USB. Upper Side Band

VHF. Very High Frequency

WATS. Wide Area Telephone Service

CHAPTER 1
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CHAPTER 2
RESPONSIBILITIES AND POLICIES

2-1. DISTRICT COMMANDER

a. General. It is the responsibility of the District Commander to insure the installation, maintenance and operation of an adequate and efficient communication system for intra-district communications and such system shall be designed to operate as necessary within the LMVD communications network. SLD communications facilities and personnel will be expanded and augmented as necessary and authorized during emergencies in order that the communications system may handle the full volume of traffic both within the district and with outside agencies, including Federal and non-Federal installations.

* b. Wire Communications. Information Management, Operations Section (LMSIM-SO) is responsible for the installation, maintenance and operation of all wire communication facilities needed at the District office. In addition, LMSIM-SO is responsible for mail distribution and for messenger, teletype, telegraph and facsimile transmission service. *

* c. Radio Communications. Information Management, Operations Section (LMSIM-SO) is responsible for the installation and maintenance of all radio communication facilities required during an emergency. This section is also responsible for operation of the SSB net control station, and for providing assistance for updating this plan. *

2-2. TYPES OF FACILITIES. Both Federal and non-Federal communication facilities may be available and will be utilized as required during emergencies. This will include all types of commercial wire services, division and district radio and wire communications net, Army Signal Facilities, Federal Agencies System, systems of local governments, utilities and others.

a. Commercial. The District Wire Communication Net consists of commercial, local, long distance, wide area telephone service (WATS), automatic voice network (Autovon), Federal telecommunication system (FTS), telegraph and Western Union teletypewriters (TWX) services, marine telephone operator service, telecopier facsimile transmitter service of the Bell Telephone Company and its affiliates will be utilized as required.

b. Division and District Radio Nets. Complete radio facilities are available in SLD for communication within the district, with other stations of LMVD, and with stations of adjacent divisions. See Appendix C of this Plan.

c. Army Signal Facilities. None available in SLD. Request for U.S. Army signal assistance will be made to Fifth U.S. Army through the Division Commander, ATTN: LMVCO-E.

d. Records of Communications. When time permits and the need for a record of communications is indicated, message forms will be used for messages both by wire and radio. (e.g. DD Form 173, for wire communications and LMV Form 7-R, for radio communications)

(1) Commercial Telegraph. Subject to all applicable regulations, commercial telegraph service (Western Union) will be used only for recorded messages.

(2) Commercial Telegraph, Western Union Infomaster, and Western Union Easy Link Teletypewriter Service (TWX). This service is provided by * Information Management. "Equipment to be used in the Telex machine located * in Room 942, a Wang 64K terminal (to be located in EOC in emergency situations only), and a communicating electronic typewriter (to be located in EOC in emergency situations only). Use of the District Local Area Network (LAN) is needed. If the LAN becomes disabled, a 1200 baud modem * needs to be provided by LMSIM." *

e. Use of Non-Record Communications. Primary usage will be made of Government-owned, controlled, or leased wide area telephone service (WATS). Telephone service, which results in toll charges, may be used only when use of the other facilities is impractical. Toll charges must be placed through operator assistance.

(1) Leased Telephone Lines. Leased, private line telephone circuits, when secured on an emergency basis, will be immediately released for normal public use at the end of the period of emergency.

* (2) Telecopier No. LMSIM Incoming and Outgoing 314-263-5324. *

* Telecopier No. LMSOD-E Incoming and Outgoing 314-263-5347. *

(3) Use of Electronic Systems. This form of communication is referred to in this plan as "Radio Communication." Radio communication facilities will be used to the fullest extent for both recorded and non-recorded unclassified emergency traffic.

f. District Nets. The SLD radio net consists of a District Net Control Station (call sign WUG-5) on which is satellited a number of Project and Field office fixed stations, Lock and Dam stations, ship stations, portable and vehicular stations. During emergencies, local nets will be established as required to serve various Area, Subarea and Sector Offices.

g. FM & SSB Nets.

(1) FM. All stations mentioned above are also equipped and operated in a VHF-FM net, together with other fixed land stations (Project and Field offices), smaller ships (tenders workboats and surveyboats) and the major portion of all land vehicles in SLD.

(2) SSB. The SLD Net Control Station is equipped to operate with all Divisions and Districts on upper and lower Suppressed Selectable Single Side Band transmission on voice only. Voice is normally used for communication between SLD Net Control Station and the major ship stations of SLD when out of VHF-FM range.

h. Vehicular and Pack Nets. All radio-equipped vehicles operate in the FM net, and are capable of utilizing one of the four (4) assigned frequencies. "Handie Talkies" also operating in the FM net are normally used by the dredges and for survey and other short-range communication.

i. Interdivisional Operations. Radio communications between SLD and adjacent Divisions and Districts will be handled through the facilities of the Lower Mississippi Valley Division Office. Extreme national emergency situations may preclude formal action at Division level.

j. Marine Frequencies. All of the floating plant vessels that operate on the navigable waters, the Locks and Dams and WUG-5 are equipped with Marine Transceivers that operate within the Marine Radio Frequencies VHF, assigned by the FCC. These frequencies are on a shared basis with commercial, Federal, civilian vessels and with the U.S. Coast Guard. All floating plant radiotelephone operators are cautioned against the use of Channel 16, as a working frequency. This frequency was established by international agreement for calling and distress purposes only. After a "calling" contact has been made with a station, Channel 16 for other than distress and safety reasons, communications are to be immediately transferred to those frequencies assigned for "working." This applies only to marine frequencies, not Government frequencies.

2-3. EMERGENCY OPERATIONS TRAILER (EOT). This Trailer is 8'x30'x12.5' and capable of being transported to the scene of the disaster. It contains the following Electronic Communications Equipment:

a. SSB Transceiver, 125 watt PEP, on 1.6 KC to 30 MHz, Tunable.
b. FM Marine Transceiver, 25 watt, 55 CH. Transmit, 75 CH Receive.
c. CB Transceiver, 5 watt, AM and SSB. 26 MHz to 27 MHz, Tunable.
d. FM, High Band Transceiver, 110 watt, CE Frequencies, 163 to 164, Crystal
e. Scanner Bearcat, LB, HB, UHF

f. Wulfsberg Transceiver System, FM, 10 watt.
LB-30 MHz to 50 MHz, Tunable
HB-130 MHz to 174 MHz, Tunable
UHF-400 MHz to 450 MHz, Tunable
g. HF Teletype Transceiver
h. Wulfsberg Transceiver System, AM, 10 Watt (Commercial Helicopter Frequencies)
* i. EOT is wired to receive both pulse and tone telephone dialing systems. *

2-4. PRINCIPAL RADIO STATIONS. Other Districts/Division

		Lo-Band
WUG	Vicksburg, MS - District/Division & MRC Office	(Channel B)
WUG-2	Memphis, TN - District Office	(Channel B)
WUG-21	Cairo, IL - Area Office	(Channel B)
WUG-4	New Orleans, LA - District Office	(Channel B)
WUG-4000	MRC Vehicle (General)	(Channel B)
AEUI	M/V MISSISSIPPI (MRS Inspection Boat)	(Channel B)
* N65CE	LMVD Aircraft (GULF STREAM, G1)	(Channel A) *
* N40CE	HQ USACE Aircraft (G2)	(Channel A) *

CHAPTER 3
DISTRICT COMMUNICATION NETWORK AND ORGANIZATION

3-1. GENERAL DESCRIPTION OF FACILITIES. The St. Louis District Communication's Control Facility is located in Building No. 3 at the St. Louis District Service Base. This facility is the center of the system consisting of the control terminal for the three main communications' legs, north, south and east of the District. The Service Base console contains full system operational control over the VHF repeater, VHF base station, Lo-Band base station, and the interface to connect all the communication legs together, for "ALL CALL" type communication for daytime emergencies and for after working hours with weekend outside access via telephone. The service base radio console operator also can connect any base station or mobile unit to the telephone system by way of a simplex phone patch on request.

* As can be seen in the system overview, (see Appendix D of this Plan) there are ten areas in the Communication District that a mobile or base station may gain access to repeaters or for phone patch use. Using the proper combinations will give you proper operation of the radio systems. (Channel and PL selection) *

a. Capability and Use of Normal Network. Under normal conditions the existing Communication Facilities of SLD are capable of performing the services required. The primary purpose of these facilities is the support of various SLD activities. However, these facilities are also utilized regularly for exchange of weather and hydrologic data, e.g., with other LMVD stations, and stations of adjacent Divisions.

b. Radio Installations (Permanent). Permanent SLD radio installations consist of fixed land stations, floating plant (ship) stations and vehicular stations as follows:

(1) Fixed Stations

Call	Location	Frequencies (KHZ) & Type Emission
WUG-5	St. Louis District (Service Base)	2343.5, 2348.5, 2602.5, 5013.5, 5398.5, 5436.0 & 6018.5 KHz, LSB. 2346.5, 2351.5, 2605.5, 5016.5, 5401.5, 5439.0 & 6021.5 KHz, USB. 163.4125 & 163.5357, 163.5557, 6786.5, 735.8, 8168.5, 9124.0, 12071.5, 12268.5, 16078.5 and 16383.5 MHz FM, USB 38.91 MHz and 38.69 MHz LSB plus Marine frequencies.

WUG-52	Lake Wappapello Mgmt Ofc	163.5375 MHz FM
WUG-53	Kaskaskia Lock & Dam	163.4125 MHz FM
WUG-54	Carlyle Lake Mgmt Ofc	163.5375 MHz FM
WUG-55	Rend Lake Mgmt Office	163.4125 MHz FM
WUG-56	Lower Miss River Project Ofc	163.4125 MHz FM
WUG-57	Lake Shelbyville Management Office	38.89, 38.91 & 163.5375 MHz FM
WUG-58	Clarence Cannon Resident Office	163.5375 MHz FM
WUG-524	Lock & Dam No. 24	163.5375 MHz FM
WUG-525	Lock & Dam No. 25	163.5375 MHz FM
WUG-526	Locks & Dam No. 26	163.5375 MHz FM
WUG-527	Locks No. 27	163.5375 MHz FM
WUG-530	Repair Unit-Land	163.5375 MHz FM
* WUG-531	Lock & Dam No. 26 (Replacement)	163.5375 MHz FM *
WUG-532	Upper Miss River Project Ofc	163.5375 MHz FM
WUG-5182	Mark Twain Lake Mgmt Ofc	163.5375 MHz FM

(2) Floating Plant (Ship) Stations

Call	Name	Frequencies (MHz) & Type Emission
AEAO	To be designated	163.4125, 163.5375 MHz FM, plus Marine frequencies.
AEMC	Dredge POTTER	163.4125, 163.5375 MHz, FM, plus Marine frequencies.
AECH	Tender KIMMSWICK	163.4125, 163.5375 MHz, FM
AEUX	Tender KASKASKIA	163.4125, 163.5375 MHz, FM
AEEX	Tender PRAIRIE DU ROCHER	163.4125, 163.5375 MHz, FM

AEBQ	Patrolboat PATHFINDER	163.4125, 163.5375 MHz, FM
AEEW	Towboat GRAND TOWER	163.4125, 163.5375 MHz, FM
AEJI	Launch PITTSBURGH	163.4125, 163.5375 MHz, FM
AEMQ	Launch CINCINNATI	163.4125, 163.5375 MHz, FM
AEMP	Surveyboat MOORE	163.4125, 163.5375 MHz, FM
AEMK	Surveyboat HARDIN	163.4125, 163.5375 MHz, FM

* (3) Vehicular Stations. There are approximately two hundred (plus or minus) radio-equipped vehicles in SLD. Vehicular radio stations operate * in the FM net only (163.4125 & 163.5375 MHz) with exception of some ranger vehicles which use 38.69, 38.89 and 27 MHz, in Illinois. In Missouri ranger vehicles use 159.36, 156.70, 141.30, 136.50 and 27 MHz.

3-2. NORMAL USE OF ASSIGNED FREQUENCIES.

a. 5436.0 KHz (LSB) & 5439.0 KHz (USB) are normally reserved for daylight communication with LMVD and ORD stations (SLD Net Control Station only).

b. 2343.5 KHz (LSB) & 2346.5 KHz (USB) are normally reserved for night-time communication with LMVD stations.

c. 6018.5 KHz (LSB) & 6021.5 KHz (USB) are the primary daylight frequencies for long-range communications, e.g., with major floating plant stations operating at great distances from St. Louis for emergency communication with stations of NCD.

d. 2605.5 and 2351.5 KHz are secondary daylight and primary night-time frequencies for intra-district communication with major floating plant stations. 2605.5 KHz is also used for emergency communications with nearby stations of MRD in order to relieve congestion on 5401.5 KHz.

e. 5016.5 KHz special alert frequency when required by higher authority normally used for intra-district and division traffic. NOTE: During special alert, traffic on 5016.5 KHz will be shifted to 5013 KHz or 6021.5 KHz.

f. 38.89 MHz (FM) is the first Lo-Band frequency of the SLD net and is normally used for vehicular communications.

g. 38.91 MHz (FM) is the second Lo-Band frequency of the SLD FM net and is reserved for future use.

h. 38.69 MHz (FM) is the third frequency of the SLD FM net and is normally used for repeater system entry to SBRO by vehicles and boats of SLD and aircraft from Division headquarters.

i. 163.4125 MHz (FM) is the fourth frequency of the SLD FM net and is used for vehicle-to-vehicle, boat-to-boat and vehicle/boat-to-base station communications.

j. 163.5375 MHz (FM) is the fifth frequency of the SLD FM net and is used for vehicle-to-vehicle, boat-to-boat and vehicle/boat-to-base station communications.

k. 164.175 MHz (FM) is the sixth frequency of the SLD FM net and is used for repeater system entry to SBRO by vehicles, boats and base situations.

l. 164.200 MHz (FM) is the seventh frequency of the SLD FM net and is used for repeater system entry to SBRO by vehicles, boats and base stations.

m. 27 MHz is used by a few ranger vehicles to communicate with campers.

* n. Eleven (11) additional frequencies in the 400-420 and 1700 to 2275 MHz ranges are used only for the St. Louis District (Back Bone) repeater system. *

o. 165.0375 MHz (FM) is the eighth frequency of the SLD FM net and is used for normal survey operations and also is used by the EOC located at 210 Tucker Blvd., North, Room 1040, for flood and natural disasters.

p. Ranger frequencies in Illinois and Missouri, see paragraph 1. (3) previous page.

3-3. EMPLOYMENT DURING EMERGENCY.

a. SSB frequencies will be utilized substantially as outlined in paragraph c above during a flood or similar emergency, subject to any instruction issued by LMVD. Upon receiving instructions issued by LMVD, SLD would initiate an emergency exercise in accordance with Chapter 2 of this Plan paragraph 2-g.

b. Usage of the FM frequencies (4 channels) for long-range point-to-point communication during emergency operations will be reduced to a minimum in order to afford full use of these channels by the flood or disaster areas affected. Also, in order to reduce interference, adjacent areas may be directed to use alternate channels. Each Area Engineer will be responsible for the regulation of traffic on the FM channel within his area. Interference between areas or from outside activities will be reported promptly through channels, in order that appropriate action may be taken to alleviate the condition.

(1) Authority for Activation of Additional Radio Stations. Authority to activate additional permanent land stations or ship stations will be obtained from the Chief, Strategic Communications Command in accordance with provisions of ER 1125-2-308. Additional vehicular, portable or emergency land stations may be activated by the Commander as needed, utilizing WUG call signs from blocks allocated to SLD.

(2) Augmentation of District Networks for Emergencies. During emergencies, when the need to expand the District's normal radio communication networks is indicated, the standby equipment listed below will be utilized and other radio equipment, particularly mobile units, will be deployed as required.

3-4. EMERGENCY RADIO STATIONS. The following emergency radio stations may be established, as needed, during flood or other emergencies:

Call	Location	MHz Frequencies
WUG-54	Carlyle Lake Mgmt Ofc (Kaskaskia River Area)	163.4125, 163.5375, 164.175 & 164.200 MHz FM
WUG-56	Lower Miss River Project Ofc (Cape Girardeau Area)	163.4125, 163.5375, 164.175 & 164.200 MHz FM
WUG-58	Clarence Cannon Resident Ofc (Salt River Area)	163.4125, 163.5375, 164.175 & 164.200 MHz FM
WUG-532	Upper Miss River Project Ofc (Elsberry Area)	163.4125, 163.5375, 164.175 & 164.200 MHz FM
* WUG-5300	Illinois Resident Ofc (St. Louis Area)	163.4125, 163.5375, 164.175 & 164.200 MHz FM *
WUG-5000	Emerg Opns Center (District Ofc, Rm 1040)	163.4125, 163.5375, 164.175 & 164.200 MHz FM

WUG-5001	Jacksonville, IL (Illinois River Area)	163.4125, 163.5375, 164.175 & 164.200 MHz FM
WUG-5002	Ste Genevieve, MO (Meramec River Area)	163.4125, 163.5375, 164.175 & 164.200 MHz FM
WUG-5003	Locks 27 (East Side Area)	163.4125, 163.5375, 164.175 & 164.200 MHz FM

Note: WUG-5003 through 5015 are reserved emergency radio stations which can be established on an as needed basis during a flood or other emergencies.

WUG-5296	Service Base, Shop	163.4125, 163.5375, 164.175 & 164.200 MHz FM

3-5. ORGANIZATION OF DISTRICT COMMUNICATIONS NETWORK. The Branch and/or Section responsible for communications will follow the organizational chain of command when deemed desirable to place all communications under the supervision of a Branch and/or Section for emergency operations. Developed plans are kept up to date to insure 24-hour staffing of these facilities without delay under emergency conditions.

Organization for Wire Communications.

* (1) Information Management Office. See Chapter 2 of this Plan.

(2) Personnel List.

	Telephone	
	Office	Residence
Edward E. Middleton, Information Management Office	314-263-5657	618-465-7011

Wire Communication Personnel

Ms. Ann Wilcox (LMSIM-SO)	Primary Wire Communications Operator	Operator: Telex, Wang and Facsimile
Roger Siller (LMSIM-SO)	Back-up Wire Communications Operator	Alternate Operator: Telex, Wang, and Facsimile
Ms. Gail Gegg (LMSOD-E)	Back-up Wire Communications Operator	Primary Operator: Emergency Operations Center Telex, Wang, and Telecopier

*

*	Ms. Linda Moore (LMSIM-I)	Back-up Wire Communications Operator	Alternate Operator: Telex, Wang, and Facsimile
		Ms. Brenda Jones (LMSLM)	Primary Travel and Freight Clerk
		Ms. Vivian Ratliff (LMSLM)	Back-up Primary Travel and Freight Clerk

3-6. ORGANIZATION FOR RADIO COMMUNICATIONS

a. Personnel List.

	Telephone Office	Residence
Harold D. Barnhard, Communications Specialist	314-263-4128	314-522-3856
Elbert M. Reilly, Electronic Equipment Repair Inspector	314-263-4148	314-822-8877
Ms. Henrietta Creel, Radio Operator	314-263-4750	N/A

b. Augmentation Required During Emergencies. Augmentation required will depend upon scope of emergency. During a major flood fight the additional personnel listed below is considered maximum for 24-hour staffing:

1 Radio Operator (Radiotelephone)
1 Electronics Technician
2 Contractors

This is based upon the assumption that area and sector engineers will be able to staff 24-hour communication operations. It is anticipated that additional personnel required for operation of radio stations during emergencies will be available through reassignment from other divisions, branches and sections of SLD. It is also anticipated that additional personnel required for radio installation and maintenance will be available from contractor and local radio 2-way service companies. *

3-7. ALTERNATE WIRE COMMUNICATIONS CENTERS.

a. USAISC Communication Center — TWX/Telex No. 910-761-2160
Bldg. 103A, ATTN: CCNC-STL-CT
4300 Goodfellow Blvd.
St. Louis, MO 63120

Manager - 314-263-3991
COMSEC Custodian - 314-263-2247 or 2248
Note: Primary Alternate, Operation; 24 hrs daily, 365 days per year
OCR Equipment - Special Font and procedures are required. (All Classified Military Messages must be transmitted through TROSCOM)

b. U.S. Coast Guard TWX/Telex No. 910-761-1168
1430 Olive Street - Room 460
St. Louis, MO 63103
COM Center - 314-425-4612
NOTE: Can only transmit messages, cannot receive messages. Does not accept messages via telephone. Operation; 24 hrs daily, 365 days per year
Capability: Autodin, AIG, TWX, Telex and Tape to data traffic
Emergency Situation: Secondary alternate, will transmit message only for SLD (must be hand carried)

c. Defense Contract Administration Service Region (DCASR) TWX/Telex No. 910-770-4967
1136 Washington Avenue
St. Louis, MO 63101
COM Center 314-263-6653
NOTE: Hand carry to guard in lobby and he will direct you to receptionist who will take message to Com Center.
Capability: Autodin, TWX, Card, Magnetic tape and WU Infomaster
Emergency Situation: Third alternate will transmit and receive messages for SLD during 0800 hrs to 1800 hrs daily, except for weekends and holidays

The above communications center accept up to TOP SECRET messages.

CHAPTER 4
DISASTER PREPAREDNESS

4-1. GENERAL. Disaster Preparedness in the SLD will consist of planning and familiarization of personnel with policies, and procedures as outlined and referenced in this plan for emergency communications.

a. Federal Agencies. Initial contact with these agencies will be made when emergency situation indicates possible need for communication * assistance. (See Appendix C of this Plan) *

b. Local Government Systems. Procedures described in item a above * will also be applicable to Local Government agencies. (See Appendix C of * this Plan)

4-2. EQUIPMENT AND SERVICES.

a. District Office. See Chapter 2 of this Plan.

b. Service Base.

(1) The St. Louis District maintains one 7.5 KW, stand-by diesel engine generator for the radio room and electronics repair shop.

* (2) Other portable gasoline-operated generators varying from 2.5 * to 3.5 KW are located at Repair-Unit Land, which are assigned to the Disaster Preparedness account.

c. Back-up Radio Station.

(1) Locks No. 27 Radio Station is the back-up for failure of the Service Base Radio Net.

d. Maintenance.

(1) Wire Facilities. Commercially owned and maintained.
(2) Radio Facilities. See Chapter 2 of this Plan.
(3) Stand-by Generator. The 7.5 KW Diesel Engine Generator set is operated and maintained by Service Base personnel.

4-3. TRAINING AND EXERCISES.

a. District and Division Exercise. Detailed procedures are provided in DIVR 500-1-2.

b. Test Schedules With Other Nets. Detailed procedures are provided in DIVR 500-1-2.

4-4. MOBILIZATION. Annex G of DP 500-1-1, LMS Mobilization Plan (LMSMP) * provides guidance and procedures for the development and operation of * necessary communications during mobilization.

CHAPTER 5
OPERATION DURING EMERGENCIES

5-1. OPERATION DURING EMERGENCIES.

a. Wire Facilities. At any time emergency operations are activated under ER 500-1-1 all wire facilities will be operated in accordance with DR 500-1-1, Appendix A, paragraph 2.b (a) and Appendix B of this Plan (EOC, Room 1040, additional Telephone Nos. 314-263-5200 through 263-5209, when activated only.)

b. Electronic Facilities. At any time emergency operations are activated under ER 500-1-1, all electronic facilities will be operated in accordance with Appendix B and C of this Plan.

c. District Net Control. During emergency operations SLD Net Control Station WUG-5 will control all use of the SSB network within the District, subject to instructions from the Division Net Control Station WUG. Use of the FM net by WUG-5 and other permanent land stations will be curtailed in order that these channels may be utilized fully.

5-2. OPERATION DURING NORMAL HOURS.

a. Hours of Operation. The hours of operation will be directed by the District Commander. Normal hours of operation are from 0730 to 1600 hrs. CST, Monday through Friday. (FM 163.4125 MHz, South St. Louis, and FM 164.1750 MHz, North St. Louis, monitored from 1600 to 0730 hrs. CST)

* b. FCC Regulations. The St. Louis District net will be operated in accordance with the applicable rules and regulations of the FCC. A current copy of the applicable rules and regulations will be maintained at the Net Control Station. *

* c. Warning Systems. See Appendix C, part IV of this plan. *

APPENDIX A

ORGANIZATION OF ST. LOUIS DISTRICT COMMUNICATIONS NETWORK

Consult Chapter 2 of this plan especially paragraphs 2-1.b, c and 2-2.b and f. Detailed procedures and guidance are provided in DIVR 500-1-2.

APPENDIX B

TEST SCHEDULES

Normal daily operations usually provide a satisfactory test of the St. Louis Districts network both wire and radio. Periodically a communication check is accomplished via wire and radio facilities by HQUSACE and LMVD.

APPENDIX C

DIRECTORIES OF OTHER AGENCIES

PART I - SYSTEM OF LOCAL GOVERNMENT

PART II - ELECTRONIC COMMUNICATIONS COORDINATOR

PART III - EMERGENCY COMMUNICATIONS DIRECTOR OF TWX AND TELECOPY NUMBERS

PART IV - CIVIL PREPAREDNESS WARNING SIGNALS

1. CIVIL PREPAREDNESS WARNING SIGNALS (NATURAL)

2. CIVIL PREPAREDNESS WARNING SIGNALS (NATIONAL)

3. PHONETIC ALPHABET

4. CONVERSION OF LOCAL TIME TO ZULU TIME

APPENDIX C

PART I

1. SYSTEM OF LOCAL GOVERNMENT

a. State Highway Patrol and State Police Radio Network Headquarters, with SLD Boundaries.

b. MISSOURI (Highway Patrol)

Missouri State Highway Patrol
Troop "C" Headquarters
P.O. Box 3756
Kirkwood, MO 63122
Tel. 314-434-5500

Teletype circuits with St. Louis City and St. Louis County Police Headquarters only, in addition to point-to-point and mobile radio communication network.

c. ILLINOIS (State Police)

Illinois State Highway Police
District No. 11, Headquarters
101 West Main
Collinsville, IL 62234
Tel. 618-345-1212

2. NATIONAL GUARD STATE HEADQUARTERS

a. MISSOURI

Missouri National Guard, 1138th Engineer Battalion
Emergency Operations Headquarters
78 Davis St., Jefferson Barracks
St. Louis, MO 63125
Tel. 314-263-8675

Missouri Air National Guard

157th Tactical Control Group
No. 1 Grant Road, Jefferson Barracks
St. Louis, MO 63125
Tel. 314-263-3901

Robertson Air National Guard Base
Lambert Air Field, Command Post
St. Louis, MO 63145
Tel. 314-263-6303

b. ILLINOIS

Illinois National Guard, 3rd Battalion, 130th Inf., 23rd Division
Company C & D
2931 State Street
East St. Louis, IL 62205
Tel. 618-875-2128
618-875-0128

Radio Communication with Adjutant General, Springfield, Illinois

375th Aeromedical Airlift Wing
Scott Air Force Base, IL 62225
Tel. 618-256-3283

3. OTHERS

a. Public Utility Companies

Union Electric Company
No. 1 South Memorial
St. Louis, MO 63102
Tel. 621-3222 (No long distance number)

Microwave system St. Louis to Joppa, KY
Microwave system to St. Louis to Keokuk, IA
Microwave system St. Louis to Moberly to Osage, MO (Lake of the Ozarks)

Also have FM vehicular net. Do not have any wire communication facilities.

Laclede Gas Company
720 Olie Street
St. Louis, MO 63101
Tel. 342-0500

Local FM vehicular net only.

Mississippi River Transmission Corp.
9900 Clayton Road
St. Louis, MO 63124
Tel. 991-9900

This company has an FM vehicular net covering southeastern Missouri as far as Poplar Bluff, Missouri. They also have a private telephone circuit from St. Louis to Monroe, Louisiana, with drops at their various booster stations along their pipeline route.

b. Taxicabs (Radio Dispatched) St. Louis & Vicinity

Laclede Cab Co. (652-3456)
Yellow Cab Co. (361-2345 city) (991-1200 county)
Checker Cabs (725-5600)
Allen Cab Co. (531-4545)
County Cab Co. (991-5300)

4. FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA)

Region V, (Chicago, IL)
300 S. Wacker Dr., 24th Floor
Chicago, IL 60606
Tel. 312-353-1500

Region VII, (Kansas City, MO)
911 Walnut Street, Room 300
Kansas City, MO 64106
Tel. 816-374-5911

5. CIVIL PREPAREDNESS

a. Missouri

State Emergency Management Agency
P.O. Box 116
1717 Industrial Drive
Jefferson City, MO 65101
Tel. 314-751-2321 Ext. 182
314-751-4574 (Direct Line)
314-751-2748 (Emerg 24 hr No.)
Autovon 7-940-3210, Ext. 379

City of St. Louis
Director, Disaster
Operations Office,
Communications Center,
City of St. Louis
1315 Chestnut Street
St. Louis, MO 63103
Tel. 314-622-3501

St. Louis County
Office of Civil Preparedness
St. Louis County
7900 Forsyth Ave
St. Louis, MO 63105
Tel. 314-889-2111
314-889-2056
314-469-3141 EOC

b. Illinois

Emergency Services and Disaster Agency
110 East Adams Street
Springfield, IL 62706
Tel. 217-782-4602

For local municipalities involved in civil preparedness activities a listing of addresses and telephone numbers is available in the Emergency Management Branch (LMSOD-E), 314-263-5684, 263-5705 or 263-5301.

6. NATIONAL WEATHER SERVICE

River Forecast and Temperature
Tel. 314-928-1194 (River)
314-928-1196 (Travel Line)
314-928-1198 (Current Temperature & Forecast)

7. AMERICAN RED CROSS

Tel. 314-658-2000

8. RADIO STATIONS

AM Stations

KUSA	(550)	WGNU	(920)	KGLD	(1380)
WRTH	(590)	KSGM	(980)	KJCF	(1400)
KXOK	(630)	KXEN	(1010)	WIL	(1430)
KSTL	(690)	KMOX	(1120)	KIRL	(1460)
KWRE	(730)	WIBV	(1260)	WESL	(1490)
WEW	(770)	KSIV	(1320)	WBGZ	(1570)
KFUO	(850)	KSLQ	(1350)	KATZ	(1600)

FM Stations

WSIE	(88.7)	WIL	(92.3)	WMRY	(101.1)
KCFV	(89.5)	KSD	(93.7)	KEZK	(102.5)
KCLC	(89.1)	KSHE	(94.7)	KHTR	(103.3)
KYMC	(89.7)	KADI	(96.3)	WKKY	(104.1)
KRSH	(90.1)	KLTH	(97.1)	WCBW	(105.0)
KWUR	(90.3)	KYKY	(98.1)	KWK	(106.5)
KWMU	(90.7)	KFUO	(99.1)	KMJM	(107.7)
KSLH	(91.5)	WZEN	(100.3)		

APPENDIX C

PART II

Electronic Communication Coordinators

	Division or District	Call Sig	Frequency Monitor (SSSSB)	Communication Coordinators	Commercial Telephone Service	FTS Telephone Service	
*	USACE	WUO	--	M. De Pietro	202-355-2070	385-2072	*
	LMVD	WUG	5437U	D. B. Smith	601-634-5882	542-5882	
*	Memphis	WUG2	5437U	Billy Brooks	901-521-3571	222-3571	*
	Vicksburg	WUG3	5437U	Ben Horton	601-634-5002	542-5002	
*	New Orleans	WUG4	5015U	Al Lacrotz	504-838-1198	687-1223	*
	St. Louis	WUG5	5400L	Barney Barnhard	314-263-4128	273-4128	
*	NCD	WUD	6020U	Clar Reuter	312-353-6375	353-6375	*
	Buffalo	WUD2	5400U	Wm. Baum	716-876-5454 Ext. 2292	432-2292	
*	Detroit	WUD3	5400U	Ed Halas	313-226-6801	226-6807	*
	Chicago	WUD4	5400U	Jack Seeling	312-353-6428	353-6434	
*	St. Paul	WUD6	5400U	Ron O'Brien	612-437-2210	725-7564	*
*	Rock Island	WUD7	5400U	Jay Tennison	309-788-6361 Ext. 6470	360-6011	*
	MRD	WUH	--	Oliver Ness	402-221-7216	864-7216	
	Omaha	WUH4	5400L	Frank Taylor	402-221-4146	864-4146	
*	Kansas City	WUH5	5015L	Wayne Sutton	816-374-2752	758-2752	*
	ORD	WUE	5015U	Frank Jones	513-684-3089	684-3089	
*	Pittsburgh	WUE3	5327L	Joe Rullo	412-644-6892	722-6892	*
*	Huntington	WUE4	5437L	Fred Plyer	304-529-5226	924-5226	*
*	Louisville	WUE5	5437L	Al Chism	502-582-5644	352-5644	*
	Nashville	WUE6	5437L	William Lee	615-847-5700	---	
	SWD	WUI	5327L	Ed Westmeyer	214-767-2445	749-2505	
	Little Rock	WUI2	5327L	Gene Putman	501-378-5878	740-5878	
	Tulsa	WUI3	5327L	Richard Shearman	918-865-2621	736-7363	
	Galveston	WUI4	5015U	Louis Petit	713-763-1211 Ext. 632	527-6630	
*	Albuquerque	WUI5	5327L	Neff Mathner	505-766-2722	474-2721	*
*	Fort Worth	WUI6	5327L	Roland Gann	817-334-3416	334-3416	

U - Upper Side Band
L - Lower Side Band

DR 500-1-2
CHANGE 1
15 Jun 87

APPENDIX C

PART III

EMERGENCY COMMUNICATIONS DIRECTORY OF TWX AND TELECOPY NUMBERS

U.S. ARMY CORPS OF ENGINEERS

(Note: Pending republication by HQ USACE)

* HQ USACE - DAEN-CWO-EO
TELECOPY 202-272-0378

CDR USAEDLMV VICKSBURG MS//LMVCO-E//
CDRUSAED MEMPHIS TN//LMMEM//
CDRUSAED NEW ORLEANS LA//LMNEM//
CDRUSAED STL MO//LMSOD-E//

CDRUSAED VICKSBURG MS//LMKEM//

CDR USAEDMR OMAHA NE//MRDEM//
* CDRUSAED KANSAS CITY MO//MRKOD-EP//
CDRUSAED OMAHA NE//MROEP//

* CDR USAEDNA NYK NY//NADEO//
CDRUSAED BALTIMORE MD//NABEO//
CDRUSAED NYK NY//NANEO//
CDRUSAED NORFOLK VA//NAOEO//
CDRUSAED PHILA PA//NAPEO//

CDR USAEDNE WALTHAM MA//NEDEP//

* CDR USAEDNC CHICAGO IL//NCDCO-MO//
* CDRUSAED BUFFALO NY//NCBDP-PM//
* CDRUSAED CHICAGO IL//NCCOD-EO//
CDRUSAED DETROIT MI//NCEDP-PM//
CDRUSAED ROCK ISLAND IL//NCRDP-PM//
CDRUSAED ST PAUL MN//NCSDP-PM//

CDR USAEDNP PORTLAND OR//NPDOP-EO//
CDRUSAED ALASKA ELMENDORF AFB AK//NPASA-EP
* CDRSAED PORTLAND OR//NPPNA-T//
CDRUSAED SEATTLE WA//NPSOP-NF//
CDRUSAED WALLA WALLA WA//NPWOP-NF//

EMERGENCY COMMUNICATIONS DIRECTORY (Cont'd.) **(Note: Pending republication by HQ USACE)**

*	CDR	USAEDOR CINCINNATI OH//ORDEM//
		CDRUSAED HUNTINGTON WV//ORHEM//
		CDRUSAED LOUISVILLE KY//ORLEM//
		CDRUSAED NASHVILLE TN//ORNEM//
		CDRUSAED PITTSBURGH PA//ORPEM//
	CDR	USAEDPO FT SHAFTER HI//PODOP//
	CDR	USAEDSA ATLANTA GA//SADEO//
		CDRUSAED CHARLESTON SC//SACEO//
		CDRUSAED JACKSONVILLE FL//SAJEO//
		CDRUSAED MOBILE AL//SAMEO//
		CDRUSAED SAVANNAH GA//SASEO//
		CDRUSAED WILMINGTON NC//SAWEO//
	CDR	USAEDSP SFRAN CA//SPDCO-O//
		CDRUSAED LOS ANGELES CA//SPLCD-E//
		CDRISAED SACRAMENTO CA//SPKCO-O//
		CDRISAED SFRAN CA//SPNCO-E//
	CDR	USAEDSW DALLAS TX//SWDCO-O//
		CDRUSAED ALBUQUERQUE NM//SWAOP//
		CDRUSAED FT. WORTH TX//SWFOP//
		CDRUSAED GALVESTON TX//SWGOP//
		CDRUSAED LITTLE ROCK AR//SWLOP//
		CDRUSAED TULSA OK//SWTOP//
*	CDR	USAEDH HUNTSVILLE AL

APPENDIX C

PART IV

1. CIVIL PREPAREDNESS WARNING SIGNALS, NATURAL DISASTERS.

a.

Condition	Meaning	Audible Sound	Action
BLUE	Tornado Watch	No Audible Signal Employed DMATS-STL[1/] Opr Notifies Command	Turn radios to KMOX or Activate Weather Monitor
YELLOW	Tornado Alert	Steady Blast of 3-5 Min Long	Take Best Cover Possible
RED	Take Cover (Enemy Attack)	Warning or Fluctuating Tone 3-5 Min Long	Take Best Cover Possible
WHITE	All Clear	No Audible Signal Employed Transmitted by Telephone or person-to-person	Resume Normal Duties Unless Directed otherwise

b. Safety Measures for Tornado, Prior Planning.

(1) Be sure windows can be opened easily.

(2) Prepare a place for refuge preferable in an inside hallway or the basement. Have a sturdy work bench or table to crawl under, if possible.

(3) Keep a flashlight with good batteries, candles, first aid kit, transistor radio and containers for water in a convenient place.

(4) Know the location of main electrical cutoff and fuse box and how to operate them.

c. When a Storm Watch is Announced.

(1) Tune in AM and FM radio stations AM-KMOX 1120, FM-KMOX 103.3.

1/ Defense Metropolitan Area Telephone System-STL (DMATS-STL)

(2) Check all precautions you have previously set up. Fill water containers, move light weight property indoors.

(3) Open windows three to four inches on the side of the house away from the rain and wind.

(4) Disconnect as many electrical appliances as possible, (they dissipate lightning throughout the house), and turn off all gas burners.

(5) Prepare to take refuge.

d. When the Storm Hits.

(1) The "Tornado Warning" will be announced by steady blast of siren 3-5 minutes in duration. Imminent danger, take cover, and disconnect remaining appliances or pull the main switch if time allows.

(2) Go to your prepared shelter and remain there until the "All Clear Signal" is received.

(3) Return to your home or place of work, survey and report any damages to utilities or your building's manager facilities office.

2. CIVIL PREPAREDNESS WARNING SIGNALS, NATIONAL EMERGENCY.

a. Warning Signals: In an emergency caused by threatened or actual hostile attack on the United States, two types of warning signals may be sounded on the sirens of the Civil Preparedness Warning System upon receipt of official information:

(1) The ALERT WARNING SIGNAL is a steady note of five minutes duration.

(2) The ATTACK WARNING SIGNAL is a warbling, up and down, note of three minutes duration.

b. Alert Warning Signal: The signal warns --

Turn on your radio or television to see what the alert is about.

c. Take Attack Warning Signal: This signal warns --

That an enemy attack on the St. Louis Target Area is imminent and is expected to occur within one-half hours.

d. Action on Warning Signals: Upon the sounding of either of the official warning by the Civil Preparedness sirens, the public should take the following action --

(1) ALERT WARNING SIGNAL: Listen to the radio or television for additional information.

(2) ATTACK SIGNAL: Go immediately to the nearest available shelter.

3. PHONETIC ALPHABET.

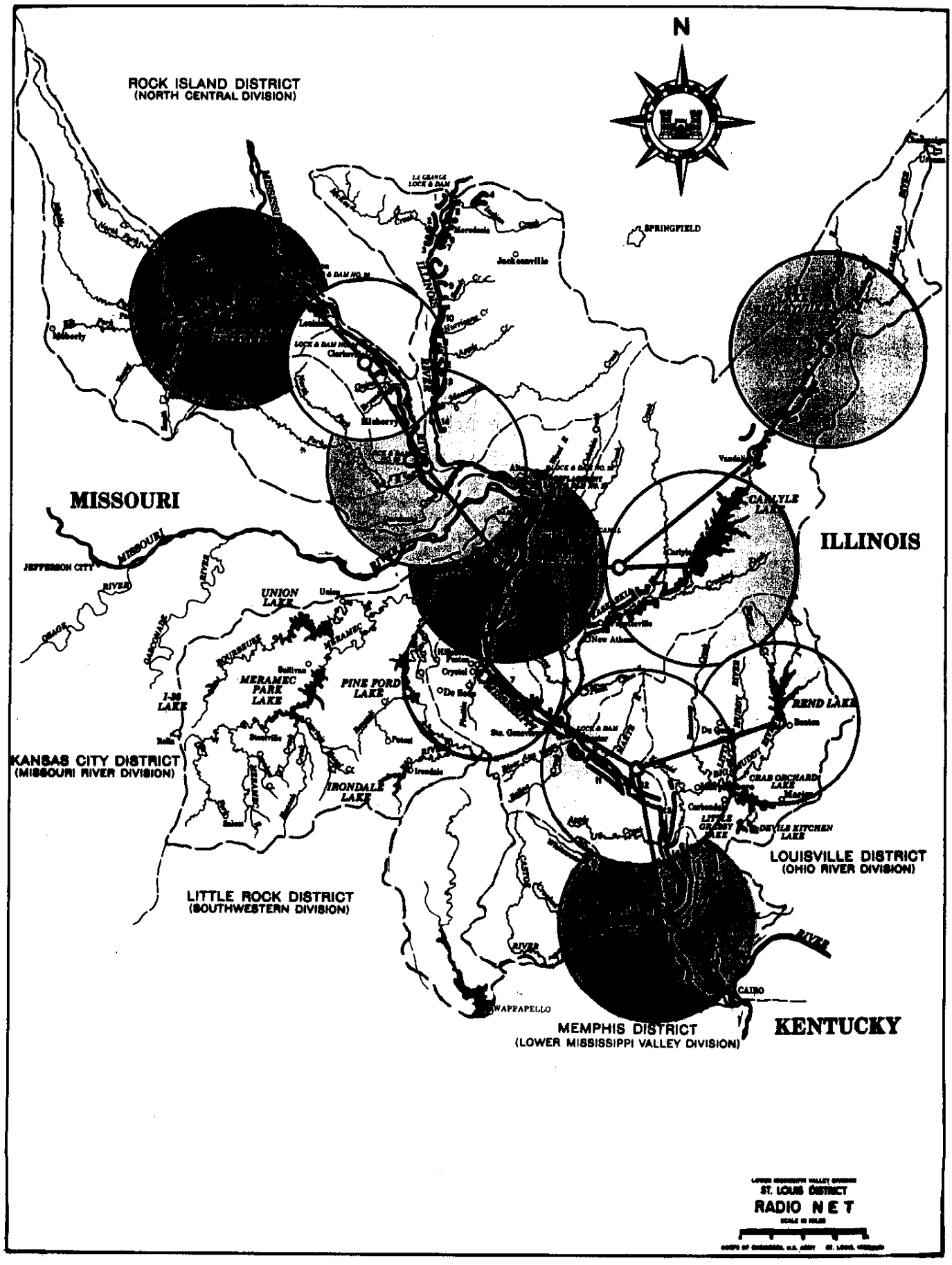
A - Alpha	J - Juliett	S - Sierra
B - Bravo	K - Kilo	T - Tango
C - Charlie	L - Lima	U - Uniform
D - Delta	M - Mike	V - Victor
E - Echo	N - November	W - Whiskey
F - Foxtrot	O - Oscar	X - X-Ray
G - Golf	P - Papa	Y - Yankee
H - Hotel	Q - Quebec	Z - Zulu
I - India	R - Romeo	

4. CONVERSION OF LOCAL TIME TO ZULU TIME.

APRIL - OCTOBER			OCTOBER - APRIL		
CENTRAL DAYLIGHT TIME (CDT)	ARMY TIME	R ZONE (GCT) Z TIME	CENTRAL STANDARD TIME (CST)	ARMY TIME	S ZONE (GCT) Z TIME
1:00 AM	0100	0600	1:00 AM	0100	0700
2:00 AM	0200	0700	2:00 AM	0200	0800
3:00 AM	0300	0800	3:00 AM	0300	0900
4:00 AM	0400	0900	4:00 AM	0400	1000
5:00 AM	0500	1000	5:00 AM	0500	1100
6:00 AM	0600	1100	6:00 AM	0600	1200
7:00 AM	0700	1200	7:00 AM	0700	1300
8:00 AM	0800	1300	8:00 AM	0800	1400
9:00 AM	0900	1400	9:00 AM	0900	1500
10:00 AM	1000	1500	10:00 AM	1000	1600
11:00 AM	1100	1600	11:00 AM	1100	1700
12:00 NOON	1200	1700	12:00 NOON	1200	1800
1:00 PM	1300	1800	1:00 PM	1300	1900
2:00 PM	1400	1900	2:00 PM	1400	2000
3:00 PM	1500	2000	3:00 PM	1500	2100
4:00 PM	1600	2100	4:00 PM	1600	2200
5:00 PM	1700	2200	5:00 PM	1700	2300
6:00 PM	1800	2300	6:00 PM	1800	2400 or 0000
7:00 PM	1900	2400 or 0000	7:00 PM	1900	0100
8:00 PM	2000	0100	8:00 PM	2000	0200
9:00 PM	2100	0200	9:00 PM	2100	0300
10:00 PM	2200	0300	10:00 PM	2200	0400
11:00 PM	2300	0400	11:00 PM	2300	0500
12:00 MN	2400 or 0000	0500	12:00 MN	2400 or 0000	0600

APPENDIX D

MAP OF ST. LOUIS DISTRICT RADIO NET


N
ROCK ISLAND DISTRICT
(NORTH CENTRAL DIVISION)
SPRINGFIELD
Jacksonville
MISSOURI
ILLINOIS
JEFFERSON CITY
MISSOURI RIVER
UNION LAKE
MERAMEC PARK LAKE
PINE FORD LAKE
I-36 LAKE
IRONDALE LAKE
KANSAS CITY DISTRICT
(MISSOURI RIVER DIVISION)
CARLYLE LAKE
New Athens
REND LAKE
CRAB ORCHARD LAKE
LITTLE GRASSY LAKE
DEVILS KITCHEN LAKE
LOUISVILLE DISTRICT
(OHIO RIVER DIVISION)
LITTLE ROCK DISTRICT
(SOUTHWESTERN DIVISION)
CAIRO
WAPPAPELLO
MEMPHIS DISTRICT
(LOWER MISSISSIPPI VALLEY DIVISION)
KENTUCKY
ST. LOUIS DISTRICT
RADIO NET

APPENDIX E

DISTRIBUTION

Detailed procedures and guidance are provided in DR 500-1-1, Appendix K.