

Appendix E to the Master Plan

SAFETY PLAN



MISSISSIPPI RIVER

Rock Island District
U.S. Army Corps of Engineers

NCDCO-MO (25 Feb 80) 1st Ind
SUBJECT: Mississippi River Safety Plan

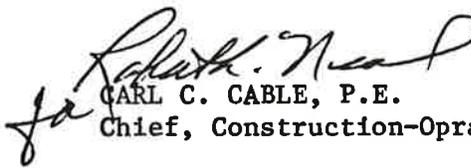
DA, North Central Division, Corps of Engineers, 536 South Clark Street,
Chicago, IL 60605 3 April 1980

TO: District Engineer, Rock Island
ATTN: NCROD-R

1. Appendix E, Project Safety Plan, for the Mississippi River is approved subject to the following comment.
2. OSHA inspections are required to be performed at each Corps project on a scheduled reoccurring basis. A list of items to be looked at in OSHA inspections has been generated for each project. The list of OSHA inspection items pertinent to the Mississippi River Recreation Resource Management Unit and a brief explanation of the list should be provided as an addendum to the subject Appendix.
3. Four copies of the addendum described in paragraph 2, should be provided to NCDCO-MO for inclusion in NCD and OCE record copies of the Appendix.

FOR THE DIVISION ENGINEER:

Incl
wd


CARL C. CABLE, P.E.
Chief, Construction-Operations Division



DEPARTMENT OF THE ARMY
ROCK ISLAND DISTRICT, CORPS OF ENGINEERS
CLOCK TOWER BUILDING
ROCK ISLAND, ILLINOIS 61201

REPLY TO
ATTENTION OF:

NCROD-R

25 FEB 1980

SUBJECT: Mississippi River Safety Plan

Division Engineer, North Central
ATTN: NCDCO-MO

Attached are eight copies of the Safety Plan, Appendix E to the Master Plan, for the Mississippi River. This plan is being submitted for final approval.

FOR THE DISTRICT ENGINEER:

A handwritten signature in black ink, reading "Henry G. Pfiester", is positioned above the typed name.

HENRY G. PFIESTER, P.E.
Chief, Operations Division

1 Incl (8 cys)
Appendix E

MISSISSIPPI RIVER

MASTER PLAN

APPENDIX E

PROJECT SAFETY PLAN

US ARMY ENGINEER DISTRICT, ROCK ISLAND
CORPS OF ENGINEERS

FEBRUARY 1980

VI. PROJECT SAFETY PLAN

6.1 Introduction: This plan is designed to serve as a safety guide for management of the Corps of Engineers Public Use Areas along the Mississippi River. Although this is expressed in general terms, it does implicitly contain all the individual aspects of safety required to render an effective program. The programs and checklists contained herein are not to be considered complete or entire since programs will be added, deleted or modified as the need presents itself, and check lists are presented only as a guide in achieving safe conditions of the project. It is the project Safety Officers' responsibility to put into practice the action of this manual.

6.11 Purpose: The purpose of this Safety Plan is to:

a. Minimize both employee and visitor accidents by establishing definite procedures and responsibilities relative to safety.

b. Assist employees and visitors in the development of a safety attitude.

c. Identify precautionary measures to be taken to eliminate common recurring unsafe conditions.

6.12 Authority: This plan is prepared in accordance with the requirements of ER 1130-2-400, dated 28 May 1971.

6.13 Updating: This Safety Plan will be reviewed annually and revised as needed.

6.2 Administration Facilities

6.21 Office Area:

a. Housekeeping

(1) The office area will be kept clean and neat, and trash containers will be emptied each evening.

(2) Cabinets will be provided for storage of all material. Tools and supplies normally found in the office will be properly stored when not in actual use.

(3) Doors and drawers will be kept closed.

(4) Electrical work will comply with the NEC.

b. Walkways

(1) All walkways and steps will be kept free of mud, ice, snow, grease, or any other material which would render them unsafe to persons using them.

(2) Safety treads will be provided on steps.

(3) Handrails will be installed at a height of 30 - 34 inches from riser on all steps and at a height of 42 inches on walkways or platforms 4 feet or more above the adjacent ground level.

(4) Ramps provided for use by the physically handicapped will have no more than 1 foot rise in 12 feet, have level platforms at 30 foot intervals and be equipped with guardrails on both sides.

(5) Unavoidable hazards will be appropriately marked with accident prevention signs and safety color coding.

c. Inside Electrical Fixtures

(1) All electrical outlets, extension cords, fixtures and equipment will have three conductor, grounded connectors.

(2) Only fuses and circuit breakers of the proper rating for the circuit being protected will be used.

(3) Portable ground fault interruptors will be used when using electrical tools.

d. Outside Electrical Outlets

(1) All outside electrical outlets and fixtures will be weatherproof, tamper proof, and properly grounded.

(2) Ground fault interruptors will be permanently installed where required by the NEC and EM 385-1-1.

e. Lighting

(1) Offices, workrooms, corridors, stairways, and working areas shall be adequately lighted while work is in progress.

(2) Fixtures will be installed at least 7 feet above floor level.

f. Firefighting Appartus

(1) Fire Extinguishers: Fire extinguishes of the required size and type will be strategically placed for easy accessibility. As replacements are necessary ABC type extinguishers of the required size will be procured. All extinguishers will be inspected monthly to insure usability.

(2) Fire Hose: A fire hose will be maintained immediately adjacent to entrance ramp at the maintenance warehouse.

g. Safety Bulletin Board

A safety bulletin board will be installed the Rangers field office where the employee and visitor can view displayed safety information and emergency phone numbers including those of Field rangers. Field rangers will be responsible for keeping the contents up to date. A safety bulletin board will also be installed at the maintenance warehouse and will be kept current by the Park Manager.

h. First Aid Kits

All project offices and vehicles will have avilable a first aid kit containing an assortment of bandage gauze, adhesive tape, salve, ointment, and antiseptic. Contents will be immediately replaced after use.

6.22 Visitor Center

The Visitor Center is part of the Lock and Dam No. 15 lock house and all subsections of 6.21 apply.

a. Electrical

(1) All electric motors, tools, extension cords, fixtures and receptacles will be equipped with 3 conductors wiring. Under no circumstances will the ground prong be removed from a male plug. Tools protected by an approved system of double insulation need not be grounded.

(2) Tools and equipment will be serviced and maintained in a safe condition and used only for the purpose designed. Maintenance cards will be used to assure adequate and timely servicing and to record the monthly inspection of all electrical equipment. Project manager will be responsible for monthly inspections.

b. Pneumatic Equipment

(1) Pneumatic tools will be operated only as directed by the manufacturer and EM385-1-1.

(2) Air hoses will be pressure rated and inspected monthly.

(3) Compressed air will not be used to blow directly on hands, face, or clothing.

c. Eye Protection

Face shields, guards or goggles, whichever is appropriate will be used in grinding, chipping, and welding operations and in mixing or applying pesticides.

d. Ear Protection

Caution signs will be posted in any work area where sound level exceeds 85 decibels. Ear protective devices will be required in such areas.

e. Hand Tools

All hand tools will be kept in good repair and used only for the purpose for which designed. Edges requiring sharpening will be kept in sharp condition and handles will be free of cracks and splinters. All power tools will have the required safety guards as required by EM385-1-1 and OSHA.

f. Ladders

(1) Ladders will be used so that the horizontal distance from the top support to the foot will not be greater than one-fourth the vertical distance between these points.

(2) Firm support will always be assured.

(3) Only non-conducting ladders will be used where there is any possibility they may contact electrical conductors.

(4) Ladders will be inspected for broken parts prior to each use.

g. Hard Hats

(1) All employees will be furnished safety hard hats and will wear them in designated hard-hat areas and all areas where there is danger from falling objects.

(2) Hard hats are to be worn during heavy equipment operation and during other situations as dictated by project safety officer. Hard hats are required by OSHA for all construction work.

h. Safety Shoes

Safety shoes will be provided by the Government and will be worn by employees at all times.

i. Tool Storage

Tool boards will be marked so tools may be easily returned to their correct storage area after each use.

j. Structural Fires

(1) Corps employee will take immediate action to suppress fire with safety being given first consideration.

(2) Local fire department will be notified immediately.

(3) Emergency telephone numbers and reporting instructions shall be conspicuously posted.

k. Storage of Flammables

(1) Bulk storage is not available. Small containers of gasoline such as used for chainsaws will be stored in the maintenance warehouse in a Flammable Storage Room or cabinet.

(2) Paint thinners and other volatile materials will be stored in the fireproof storage room in the maintenance warehouse and marked with appropriate warning and "No Smoking" signs.

(3) Safety containers which meet the requirements of the National Fire Protection Association will be used when it is necessary to store flammables in other than original containers.

(4) All rags and waste soiled by combustible or flammable materials will be placed in closed metal container for daily disposal.

(5) Appropriate warning and "No Smoking" signs will be placed at gasoline dispenser and flammable storage areas.

1. Signs

Appropriate safety and information signs will be placed throughout the compound and at each hazardous piece of equipment (saws, grinders, etc.) in accordance with OSHA and EM385-1-1.

m. Spray Painting

(1) Spray painting will be done only in the designated, well ventilated painting room. No open flames will be allowed in this room.

(2) Smoking will not be allowed in paint room and appropriate "No Smoking" signs will be posted.

(3) All electrical equipment in the paint room will be explosion proof.

(4) Respirators with appropriate paint filters will be worn while painting.

n. Welding and Cutting

(1) Only persons determined by project manager to be qualified will be allowed to weld.

(2) Persons involved in welding and cutting operations will wear approved goggles and will assure that the welding screen is placed so as to protect others.

(3) Welding and cutting equipment will be inspected prior to each use.

(4) Oxygen and acetylene equipment will be stored and moved in accordance with the requirements of EM385-1-1.

(5) Ten pound ABC Fire Extinguishers will be located adjacent to all welding and cutting equipment.

o. Motor Vehicles

(1) Only government licensed operators having valid state driver's license will operate motor vehicles.

(2) Scheduled maintenance will be performed on, and recorded for all motor vehicles.

(3) Tires, fuel, oil, windshield wipers, and other safety features will be inspected prior to use in accordance with directions posted in vehicle storage areas.

(4) No vehicle will be left running while unattended. Keys and credit cards will be removed and vehicles locked.

(5) Vehicles will be parked in predesignated areas to reduce congestion.

(6) Keys will be removed from all stored vehicles and kept in a locked area of the administration building.

(7) Vehicle drivers will assure that all passengers wear their seat belts and shoulder harness.

(8) Vehicles used to attend emergencies will be parked to avoid problems exiting in event of emergency.

p. Mechanized Equipment

(1) All equipment will receive maintenance and will be operated as prescribed by the manufacturer's manuals.

(2) Approved roll-over protection will be on equipment where required. Equipment will contain safety belts to be worn at all times.

(3) Heavy equipment will contain an audio reverse alarm device which operate automatically when in reverse motion. (Such as tractors and dump trucks)

(4) Equipment to be used in clearing operations will be provided with guards, shields, and canopies to protect the operator.

(5) Equipment operators will wear hard hats and safety shoes.

(6) Protective earphones or plugs will be worn where equipment noise exceeds OSHA standards.

(7) "Slow Moving Vehicle" signs will be installed on appropriate equipment.

q. General Housekeeping

(1) Supplies will be stored in designated areas to conserve space and provide easy access. Supplies will be stored in such a manner as to preclude toppling.

(2) All work areas and accessways will be kept clean and free of obstructions.

6.24 Safety Officer

a. The permanent District Office Ranger is the designated Project Safety Officer. The safety officer's responsibilities are as follows:

(1) Make continuing surveys of all project activities to assure compliance with safety requirements. These surveys will be documented and recorded.

(2) See that a safety meeting is conducted weekly; such meeting being contemporary and with maximum employee participation.

(3) Insure that all safety material received from the District Safety Office is adequately distributed.

b. The appointment of a Project Safety Officer does not relieve other personnel of their responsibility for continuing surveillance of all activities to insure continuing safe work practices and a safe work environment.

6.3 Sanitation

6.31 Water Facilities

a. Type: Wells will be used throughout the entire area and will be sand point or drilled, with steel casing, drop pipe and a concrete platform. They will be located on the highest ground practicable and in all cases higher than any nearby source of pollution.

b. Testing: All wells are noncommunity and will be sampled once a year immediately preceding the recreation season. The samples will be sent to the applicable State Hygienic Lab for testing. In the event a well does not test safe, it will be immediately taken out of service and the procedures outlined in the State Health Department Bulletin pertaining to "Sanitary Standards for Water Wells" will be initiated.

6.32 Toilet

a. Cleaning: Actual cleaning will be contracted out to maintenance contractors during recreation season and inspected daily by the field rangers. Restrooms will be cleaned, disinfected, and deodorized daily during recreation season. During unusually heavy periods of visitation, cleaning will be performed as need prescribes.

b. Vaults

(1) Pit type toilet vaults will be constructed of sealed concrete block.

(2) Concrete vaults will be constructed to preclude seepage.

c. Waste Disposal

(1) Material from vaults will be pumped out as required and will be disposed of in accordance with health laws of the applicable state by a commercial pumping unit.

(2) Waterborne facilities will be connected to a sanitation sewage lagoon or connected with an approved sewage disposal station approved by the applicable state health department.

(a) Waterborn sewage disposal systems will be equipped with foot valve to prevent leakage of sewage materials back into the supply in event of damage to the pumping unit.

6.33 Solid Waste

a. Pick Up: Garbage cans will be emptied daily and the recreation area grounds picked up during the recreation season and as needed during other periods by contract caretakers.

b. Equipment

(1) Steel garbage cans with lids, plastic liners, and on stands and/or on dumpsters will be located throughout the recreation areas.

(2) Covered "Packer" trucks will be used to haul waste.

(3) In the event that a plastic liner breaks within the garbage can or refuse is deposited in a can lacking a liner, the can will be sanitized to prevent maggot and potential pathogenic organism breeding areas.

(4) Dumpsters will be sanitized regularly enough to prevent maggot and potential pathogenic organism breeding areas.

c. Disposal

All solid waste material will be disposed of in sanitary land fills operated in accordance with the State Environmental Protection Agency and the applicable County Board of Health.

6.34 Insect and Poisonous Plant Control

All pesticide programs must be approved by Division Engineer. Pesticides may be applied only by certified pesticide applicators or those under direct supervision of a certified employee.

a. Only EPA registered substances will be used.

b. Application of such substances will be made during periods of minimum public use, and will be applied in strict compliance with label instructions.

c. Mosquitoes

(1) Primary control of mosquitoes in public use areas will be by keeping areas mowed and trimmed and elimination of potential breeding areas. Biological control through establishment of residential populations of Purple Martins is being attempted.

(2) Spraying for mosquitoes will be used only at appropriate times and places and will be limited to use of contact insecticides.

d. Poisonous Plants

(1) Poison ivy will be controlled in public use areas by cutting or spraying. The use of herbicides will be kept to a minimum.

(2) Personal protective equipment, including goggles, solvent resistant gloves, face shield, hard hats, and disposable paper coveralls will be used when applying herbicides. Showers are to be available in the ranger office building. Applicators will shower as soon as possible if skin comes into contact with herbicides.

f. Weed Control

(1) Weeds will be controlled primarily by mowing with a minimum use of herbicides.

(2) Personal protective equipment will be used when applying herbicides.

6.4 Access

6.41 Roads

a. Guardrails

(1) Guard posts or guardrails meeting applicable State Highway Department specifications will be placed along roadsides where dangerous conditions exist.

(2) Pedestrian handrails with a 42" vertical height will be maintained along walkways where dangerous conditions exist.

b. Widths, Grades, and Curves

Good engineering practices concerning widths, grades, and curves will be used during road construction to provide maximum safety to traffic. Where necessary, existing roads will be modified to provide maximum safety.

c. Camp Roads and Turnouts

Camp roads and turnouts will provide minimum despoilment of the terrain, yet provide safe grade, clearance, and visibility.

d. Brush and Other Growth

Brush and other growth will be removed from the vicinity of curves, traffic control signs, and other potential hazardous locations to provide maximum useful visibility.

e. Surfaces

(1) Asphaltic-concrete road surface will be used whenever and wherever appropriations permit.

(2) Rock surfaced roads will be kept graded, crowned, and rocked to provide the smoothest, safest roadway possible.

(3) Asphaltic dust coating will be used on rock surfaced roadways to the greatest extent possible to prevent dust problems during the peak recreation season.

f. Inspections

(1) A thorough inspection of all roadways will be conducted annually prior to the recreation season for slides, washouts, potholes, and other road deteriorations.

(2) Daily inspections will be made by project personnel during routine travel and hazardous conditions will be reported to the project Safety Officer and corrected immediately.

6.42 Trails

a. Wooden Bridges

Wooden bridges will be inspected weekly during the recreation season and worn or broken members repaired or replaced.

b. Wooden Steps

Wooden steps, with handrails, will be provided where grade warrants and they will be inspected weekly during the recreation season. Worn or broken members repaired or replaced as required.

c. Handrails

Handrails will be provided where designated trails border steep and unsafe terrain and will be inspected weekly during the recreation season. Damaged rails will be replaced or repaired.

d. Signs

Warning or danger signs will be maintained at hazards (drop offs, loose rock, etc.).

e. Surface

Trail surfaces will be maintained as even as practicable to be consistent with the purpose of trail and will be kept free of debris.

f. Dead Trees and Limbs

Potentially dangerous dead trees and limbs will be cut and removed from the vicinity of trails. Pruning dead limbs from live trees follow proper pruning techniques in order that the respective tree remain in a healthful state.

6.43 Traffic Control

a. Signs

(1) Regulatory, warning, and guide signs will be installed along roadways in accordance with Federal Highway Administrations' "Manual on Uniform Traffic Control Devices".

(2) Speed limit signs designating 10 MPH will be maintained in all recreation areas. Park access roads will be posted at 15 MPH.

(3) Signs will be placed in accordance with the project sign plan.

b. Ranger Patrol

During routine travel, it will be part of the ranger's duty to assure that users comply with traffic regulations. A project owned radar gun will facilitate this enforcement.

c. Other Agencies

If available, law enforcement agencies, either through contract or mutual cooperation, will patrol Corps of Engineer roads to enforce traffic laws.

d. Special Events

During special events, when high usage can be expected, additional personnel will be on duty to aid the rangers in traffic control. The additional personnel will be briefed regarding proper traffic patrol procedures, i.e., hand signals, etc. Local law enforcement officers should be advised of the event and be prepared to respond in the case of dangerous situation.

e. Off-Road Vehicles

No designated ORV areas exist on Corps administered land on the Mississippi River project.

6.5 Public Use Facilities

6.51 Camp and Picnic Areas

a. Fireplaces

(1) Fireplaces will be maintained in good repair and kept level.

(2) Areas around fireplaces will be cleared and stone chips or other appropriate material placed to prevent spread of fire.

(3) Fireplaces will be routinely cleaned by the contract caretakers to remove accumulation of ashes, broken glass, nails, etc.

b. Trees

(1) Dead trees and branches will be removed from immediate and adjacent areas.

(2) Low hanging limbs on live trees that present potential hazards to visitors will be removed utilizing proper pruning techniques.

c. Garbage Cans and Dumpsters

(1) Metal cans with lids and plastic liners and/or dumpsters will be provided in camp and picnic areas.

(2) Cans will be in holders to prevent spillage.

(3) Cans will be emptied and new liners added daily during the recreation season.

(4) Dumpsters will be emptied on an "as needed" basis.

d. Clean Up

Trash will be removed from the grounds daily and if unusually heavy use warrants, more than once daily.

e. Mowing

(1) Mowing of all recreation and adjacent areas will be accomplished weekly or as needed by contract caretakers to aid in mosquito and poisonous weed control.

(2) Use of flail mowers by the contractors will be encouraged as they do not throw debris.

(3) When mowing with any style mower, all shields and safety devices will be in place and operating.

(4) In areas where there is debris, it will be removed prior to mowing.

(5) If possible, mowing activities will coincide with low use periods of visitor use week to reduce possibility of conflict and injury.

f. Picnic Tables

(1) Picnic tables will be constructed with a metal arch undercarriage to eliminate tripping hazards.

(2) Picnic table boards will be sanded smooth and edges rounded prior to installation and periodically inspected for splinters, breakage, and acts of vandalism.

6.52 Water Areas

a. Swimming Beaches

(1) No designated swimming beaches exist on the Mississippi River and swimming is discouraged due to strong currents and constantly changing river bottom conditions.

(2) Search and Rescue: Personnel, when notified of a drowning or missing person, will alert the county sheriff and state police. The park ranger will assist as needed.

b. Boat Ramps

(1) A "No Parking" area will be provided to allow for safe maneuvering and launching.

(2) "Safe Boating" and "No Swimming" signs will be placed at each ramp.

(3) Ramps will be of concrete construction and grooved for maximum traction.

(4) Ramps will be kept free of mud and debris.

(5) Courtesy docks with positive floatation will be provided at each ramp for loading and unloading. Ramps to docks will be equipped with handrails, have non-skid surface, and be kept free of obstructions.

c. Navigation Hazards

The U.S. Coast Guard has responsibility for placement of all buoys and navigation aids on the Mississippi River.

d. Safety Patrol

Corps of Engineers rangers and managers, when workload allows, will assist the State Water Patrol personnel during periods of high usage by patrolling water areas on an unscheduled basis.

6.53 Toilet Facilities

a. Lighting

(1) Waterborne facilities will be lighted inside and out in a manner to prevent any dark spots.

(2) Where power is available, night watcher lights will be installed near vault toilets to provide light outside, and inside through the skylights.

b. Walkways

(1) Concrete walkways will be rough finished to prevent them from becoming slippery when wet.

(2) Where steps are necessary, safety treads will be installed and when there are more than four risers they will have handrails.

(3) Where ramps are used to accommodate the physically disabled, the surface will be non-slip, proper slope and grade will be maintained, and handrails will be installed.

(4) All walkways will be kept free of obstructions.

c. Electrical

(1) All wiring will be grounded, three conductor, and ground fault interupters used where required.

(2) Fuses and circuit breakers will be proper rating for the circuit serviced.

(3) Outside outlets will be weatherproof, tamper proof, properly grounded, and equipped with ground fault circuit interrupters.

6.54 Shelter House

a. Parking

(1) Ample parking area will be provided with an appropriate number of designated spaces to accommodate physically disabled persons.

(2) Walkways to shelter houses will be maintained free of obstructions and holes, and will conform to ASA recommendations for the physically disabled.

(3) Guard posts will be set around parking areas where there is a danger of vehicles rolling over embankments or ditches.

b. Floors

(1) Floors shall be finished with a non-slip surface and will be kept free of obstructions.

(2) Floors will be swept clean daily during the recreation season.

c. Electrical

Electrical facilities will be installed and maintained as described in 6.21 c and d.

d. Shelters

Shelters located in open areas or areas susceptible to lightning strike will be properly grounded to prevent visitor injury or death.

6.55 Concessionaire Operations (Marinas)

a. Inspections

Concessionaire operations on the river are under the jurisdiction of Real Estate Division. Ranger may assist when needed. Inspections will be made of concessionaire operated marinas to insure that hazards to the public are not permitted.

b. Check List: The following is a suggested, but not all inclusive check list of important items to note during the inspection of a marina.

(1) Fuel storage and dispensing: Compliance with National Fire Codes to include necessary extinguishers and "No Smoking" signs. Compliance with approved Coast Guard guidelines for fueling technique will be required.

(2) Electrical wiring and fixtures: Compliance with National Electrical Codes.

(3) Sanitation: Compliance with state and local codes.

(4) Adequate signs: traffic control, no smoking, etc.

(5) Potable water: Compliance with codes set by the applicable State Department of Health.

(6) Floating structures: Positive floatation and general safe arrangement.

(7) Access ways: Proper construction, substantial guardrails, non-skid surface, and free of tripping hazards.

(8) Life ring with 50 foot rope for each 100 feet of dock space appropriately located on dock for easy access in time of need.

(9) Approved personal floatation devices.

(10) Rental boats: Comply with all State boating laws and Federal Coast Guard standards.

(11) Fire extinguishers: Compliance with National Fire Codes and Underwriter Lab. certified.

(12) Parking areas: Safe surfaces, proper traffic flow, provisions for handicapped persons, etc.

(13) Lighting: Sufficient area night lighting provided for walkways and stairways.

6.56 Private Floating Facilities

a. Private floating facilities will be inspected prior to the issuance of a permit and once additionally during the recreation season.

b. Private facilities must comply in general with the check list set forth in paragraph 6.55.

c. The storage of flammable material will not be allowed on a private floating facility or floating facilities owned by the project.

6.57 Playground Equipment

Playground equipment will be inspected thoroughly before the recreation season and then weekly using the following checklist as a guide.

- a. Adequate depth and cleanliness of cushioning ground cover.
- b. All places where metal rubs together for lubrication, rust, and excessive wear.
- c. Chain links and S hooks for wear.
- d. All fasteners such as screws and bolts.
- e. Exposed sharp edges where ground may have eroded from footings.
- f. Litter, debris, and broken glass.
- g. Lubrication
- h. Broken members

6.6 Public Information

6.61 Severe Weather Warnings

a. Public Use Areas: When information is received from the County Sheriff's Department or National Weather Service, that the potential for severe weather exists, the rangers will announce the information at the Public Use Areas over the public address system mounted on their vehicles in a manner to preclude panic situations.

b. The rangers will inform concessionaires of potential weather conditions, so that precautionary measures may be taken to protect their boaters.

6.62 Flood Potential

Downstream flood potential notification: An alert notification list will be maintained in the office of the Park Manager and when the danger of downstream flooding exists, he will contact all affected personnel, furnishing all information available.

6.63 Fireside Programs

Safety talks, movies, and slides will be included in fireside presentations given by rangers during the recreation season.

6.64 Bulletin Boards

Bulletin boards located in public use areas will have a section for display of safety posters and emergency information. Bulletin boards will be updated to remain current.

6.65 Safe Boating Week

Special emphasis will be placed on boating safety during Safe Boating Week with additional signs, posters, broadcasts, and news releases. During the rest of the year, cooperation with local organizations, such as the Red Cross, the Coast Guard Auxiliary, and state resource agencies will be actively sought.

6.66 Public Hunting

Project personnel will coordinate with the applicable state and federal resource agencies in providing programs on hunter's safety and designation of Corps areas not open to the public for hunting.

6.67 News Media

Throughout the year, news releases covering recreational safety will be distributed to local news media.

6.68 Emergency Information

a. Emergency information will be posted conspicuously in such places as commercial docks and bulletin boards. Information posted will include addresses and telephone numbers of the nearest doctors, hospitals, sheriff's departments, ambulance, fire department, and civil headquarters.

b. All rangers and project maintenance personnel are qualified to administer first aid during times of emergency and summon an ambulance if needed.

6.7 General

6.71 Rangers

a. Patrol

During routine patrol, it will be the duty of ranger personnel to be constantly on the alert for safety hazards. Their primary goal is to see that the public has a safe, enjoyable recreational experience while in Corps managed areas. Any unsafe conditions will be corrected or marked with a warning sign and noted on the rangers written report for corrective action.

b. Training

(1) All ranger personnel will become familiar with the requirements of this Safety Plan and EM385-1-1.

(2) All ranger personnel will take adequate first aid training courses offered by public service organizations such as Red Cross and American Heart Association. Degree of competency of personnel to be determined by Project Safety Officer.

c. Equipment

Each ranger vehicle will be equipped with the following:

(1) Flashing red emergency light.

(2) Loudspeaker.

(3) Radios for contact with the project office and applicable local law enforcement departments.

(4) First aid kits with list of contents.

(5) Fire extinguishers and shovels.

(6) Throwable life saving device.

(7) All equipment will be properly secured.

6.72 General Personnel Training

a. All personnel must have a valid government license to operate watercraft.

b. All personnel must have a valid government and state operator's license to operate a motor vehicle.

c. All personnel must be familiar with the project safety plan and EM385-1-1. All permanent personnel must pass the test given by the District Safety Officer covering EM385-1-1.

d. All personnel will become qualified first aiders.

6.73 Job Hazard Analysis

Job hazard analysis will be conducted by job supervisor prior to the beginning of any new work and will cover any potential hazards on the job and precautionary action taken to prevent them from happening. The results of the analysis will be distributed to all participating in the job to read before the undertaking of any work.

6.74 Injury to Employee

In case of injury to Corps employee, Forms CA 1 and 2, "Federal Employee Notice of Injury" will be completed and submitted to the resource manager by the victim within 48 hours of the accident. If service of a doctor is required, Form CA 16 must also be submitted. For additional guidance, see Regulation 670-1-4. OD-R should be notified of any serious injury within 24 hours.

EMERGENCY TELEPHONE NUMBERS

DUBUQUE COUNTY IOWA

AMBULANCE	319-582-4980	DUBUQUE AMBULANCE
HOSPITALS	319-588-8400	MERCY
	319-582-3681	XAVIER
	319-582-1881	FINLEY
SHERIFF	319-583-1711	
DUBUQUE POLICE DEPT.	319-583-1711	
U.S.COAST GUARD	319-582-1965	
FIRE DEPARTMENT	319-556-2211	

MUSCATINE COUNTY IOWA

AMBULANCE	319-263-5502
HOSPITAL	319-264-9100
EMERGENCY ROOM	319-264-9240
SHERIFF	319-263-6055
MUSCATINE POLICE DEPT.	319-263-9922
FIRE DEPARTMENT	319-263-2933

CLINTON COUNTY IOWA

AMBULANCE	319-242-5742	CLINTON MEDICAL TRANSPORT
HOSPITAL	319-243-5900	MERCY
	319-243-1131	JANE LAMB
SHERIFF	319-242-9211	
FIRE DEPARTMENT	319-243-2424	EMERGENCY
	319-242-0125	NON-EMERGENCY
POISON INFORMATION CTR.	800-228-9515	

CARROL COUNTY ILLINOIS

AMBULANCE	815-259-3131	THOMSON
HOSPITAL	815-273-7751	SAVANNA
SHERIFF	815-244-2635	
THOMSON POLICE DEPT.	815-244-2635	
FIRE DEPARTMENT	815-259-3131	RURAL THOMSON

WHITESIDE COUNTY ILLINOIS

AMBULANCE	815-589-2244	
SHERIFF	815-772-4044	
POISON CONTROL CENTER	800-252-2022	SPRINGFIELD

QUAD-CITY AREA

AMBULANCE	309-797-0401	MOLINE
	309-788-1234	UNITED
		ROCK ISLAND, ILL.
HOSPITAL	309-757-2611	LUTHERAN-MOLINE
	309-757-3131	PUBLIC-MOLINE
	319-326-6512	ST. LUKES-DAVENPORT

PIKE COUNTY ILLINOIS

AMBULANCE	217-285-4334	PIKE COUNTY SERV.
HOSPITAL	217-285-2186	PITTSFIELD ILLINI COMM. HOSP
SHERIFF	217-285-4471	
CITY	217-285-4484	PITTSFIELD CLERK'S OFFICE
FIRE DEPARTMENT	217-285-2339	PITTSFIELD
	217-432-8341	HULL
STATE POLICE	217-285-4431	

ADAMS COUNTY ILLINOIS

AMBULANCE	217-224-6292 or 7-224-6292	
HOSPITALS	217-223-5811	BLESSING
	217-223-1200	ST.MARY'S
SHERIFF	217-223-6300 or 7-223-6300	
CITY	217-223-6870	
FIRE DEPARTMENT	217-222-2121	QUINCY
	217-964-2215	URSA
	217-222-2141	TRI TOWNSHIP

LEWIS COUNTY MISSOURI

AMBULANCE	314-647-7133	CANTON
HOSPITALS	SEE QUINCY	
SHERIFF	314-767-5311	
CITY	314-647-0020 CLERK'S OFFICE	CANTON
FIRE DEPARTMENT	314-647-5121	CANTON
	314-762-2121	MONTICELLO

RALLS AND MARION COUNTIES MISSOURI

AMBULANCE	314-221-5000	MARION COUNTY	HANNIBAL
HOSPITALS	314-221-6511	LEVERING HOSP.	HANNIBAL
SHERIFF	314-985-5611		RALLS COUNTY
	314-221-0678		MARION COUNTY
CITY	314-221-6347	CLERK'S OFFICE	HANNIBAL
FIRE DEPARTMENT	314-221-9000		HANNIBAL
STATE POLICE	816-727-3551		

LEE COUNTY IOWA

AMBULANCE	319-524-8828	KEOKUK AMBULANCE SERVICE
HOSPITALS	319-524-7150	KEOKUK AREA HOSPITAL
SHERIFF	319-524-1414	
CITY	319-524-2050	MUNICIPAL BUILDING
FIRE DEPARTMENT	319-524-2244	KEOKUK

ADDENDUM A
MISSISSIPPI RIVER SAFETY PLAN
OSHA INSPECTION ITEMS

The following list of items are subjects of special concern during OSHA compliance inspections for the Mississippi River Project. This list is used by the inspector to insure that all major features are addressed during inspection.

DISPOSITION FORM

For use of this form, see AR 340-15, the proponent agency is TAGCEN.

REFERENCE OR OFFICE SYMBOL

SUBJECT

NCROD-R

Mississippi River Project Safety Plan

TO OD-R ✓

FROM OD-R-MR

DATE 25 June 1980

CMT 1

BOLLMAN/tb/332-6696

1. The following checklist or guide is to be incorporated into the Project Safety Plan for subsequent approval and forwarding through appropriate channels.

PERSONNEL HAZARDS

HEARING CONSERVATION
SIGHT CONSERVATION
FOOT PROTECTION
RESPIRATORY PROTECTION
SANITATION
OTHER

NOISE HAZARD AREAS

HORN
IMPACT TOOLS
PORTABLE GRINDERS, ETC.
MOWING EQUIPMENT
CHAINSAWS
HEAVY EQUIPMENT
OTHER

SIGHT PROTECTION

SAFETY GLASSES & GOGGLES
WELDING RADIATION & GRINDING, ETC.
HAND AND POWER TOOLS
OTHER

FOOT PROTECTION

SAFETY SHOES
RUBBER BOOTS
INSULATED BOOTS

RESPIRATORY PROTECTION

AIR MASK (Condition)
RESPIRATORS (Uniform)
CREOSOTE SAWING
SPRAYING
VENTILATION
CHEMICALS
OTHER

SANITATION

CONDITION OF BUILDING
CHEMICALS USED FOR CLEANING
GENERAL HOUSE KEEPING
WATER SAMPLE TESTIME PROCEDURES
GENERAL GROUNDS MAINTENANCE

CHEMICAL HAZARDS

PAINTS
SOLVENTS
PESTICIDES & HERBICIDES (Proper handling)
INVENTORY OF CHEMICALS
IDENTIFY TOXIC AND NON-TOXIC
PETROLEUM PRODUCTS

MECHANICAL HAZARDS

MACHINERY GUARDING
EQUIPMENT CONDITION
LISCENSING FOR OPERATION

PHYSICAL HAZARDS

HAND RAILS
ADEQUATE LIGHTING
PROPER VENTILATION
WORKING SURFACES
ELEVATED PLATFORM
LIFTING PROCEDURES

ELECTRICAL HAZARDS

CHECK 110 V PLUGS
DROP CORDS
HAND HELD EQUIPMENT
(GFCI) LOCKOUTS PROPER GROUNDING
PORTABLE GENERATORS
ELECTRIC DEMONSTRATION

PERSONAL PROTECTIVE APPAREL AND EQUIPMENT

CONDITION
READILY ACCESSIBLE

FIRE HAZARDS

FIRE EXITS
AVAILABLE FOR USE
FIRE DEPT. PHONE NUMBERS
EXTINGUISHERS
FLAMMABLE STORAGE AREAS

PORTABLE POWER TOOLS

EXTERNAL GRINDERS (Switches)
POWER SAWS (Proper Guarding)
GUARDING OF ALL POWER TOOLS

HAND TOOLS

CONDITION
PROPER USE

LADDERS

CONDITION
CLASS OF SAME
PROPER USE

NCROD-R
Mississippi River Project Safety Plan

25 June 80

WELDING AND CUTTING

LEATHERS
HOODS/GOGGLES (Proper)
EXTINGUISHERS
OTHER

FLAMMABLE STORAGE

VENTILATION IN PITS
PROPER VALVES IN BARRELS
BONDING - STATIC ELECTRIC CHARGE
CLASS STORED(I,II,III)



Roger D. Bollman
Assistant Park Manager

cc: OD-R-MR
Project Safety Officer Cray
Safety Office