

NATURAL RESOURCES AND ENVIRONMENTAL AFFAIRS DIVISION  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

NREAD/RTS/jc  
11090  
1 Feb 1983

From: Director  
To: Assistant Chief of Staff, Facilities

Subj: Oil Pollution Abatement

Ref: (a) Mtg btwn Mr. T. Stamps, NREAD, and Messrs. Allen Mercer and Bobby Shivar, BMaintDiv on 20 Jan 1983  
(b) On-site visit by Mr. T. Stamps (NREAD), Capt Keirstead and MGySgt Gauthier (DivEngineers, Hazardous Material Disposal Coordinators) and Capt Stiltner (2dCombat EngineerBn)  
(c) BO 11090.1B

1. During reference (a) it was disclosed that unidentified Marine personnel were observed dumping drums of hydraulic fluid/lubricating oil onto the grounds of Marine Corps Base, Camp Lejeune.

2. During reference (b) the discharge was located and verified. The personnel responsible for the discharge could not be determined. The 2d Combat Engineer Battalion, 2d Marine Division, volunteered personnel and equipment, and promptly cleaned up the discharged materials.

3. As this dumping was a direct violation of reference (c), it is recommended that an investigation be conducted to identify and discipline the responsible party.

J. I. WOOTEN

11

MEMORANDUM  
NO. 100  
1-1-50

FOR THE ATTENTION OF THE DIRECTOR  
FROM THE ATTORNEY GENERAL

RE: THE COLLECTION OF INFORMATION

- (a) The Department of Justice, and the Bureau of Investigation, are requested to advise the Attorney General of the results of their investigation of the activities of the Communist Party, U.S.A., in the State of New York, during the period from January 1, 1949, to the present.
- (b) The Department of Justice, and the Bureau of Investigation, are requested to advise the Attorney General of the results of their investigation of the activities of the Communist Party, U.S.A., in the State of New York, during the period from January 1, 1949, to the present, with respect to the activities of the Communist Party, U.S.A., in the State of New York, during the period from January 1, 1949, to the present.

The Department of Justice, and the Bureau of Investigation, are requested to advise the Attorney General of the results of their investigation of the activities of the Communist Party, U.S.A., in the State of New York, during the period from January 1, 1949, to the present.

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Very truly yours,  
[Signature]

PROCEDURES FOR RESPONSE TO OIL AND HAZARDOUS SUBSTANCE SPILLS AND RELATED EMERGENCIES  
BY ORGANIZATIONS WITHIN FACILITIES DEPARTMENT  
MARINE CORPS BASE, CAMP LEJEUNE

File - 11090  
1983

1. Purpose. These guidelines have been developed to assist in the coordination of efforts by organizations within the Facilities Department to carry out responsibilities assigned in Base Order 11090.1B relative to response to spills of oil and other hazardous substances and related emergencies. Particularly important is that timely, effective response be made to these situations in a manner which avoids duplication of effort and efficiently utilizes available manpower, equipment, and supplies. Specifically these guidelines are designed to provide the following:

- a. To define a category of spills which can be considered minor in nature and which will be handled by working level personnel with a minimum of involvement of senior personnel and staff specialists.
- b. To expand guidance on dealing with emergencies which pose a significant threat to life, property and the environment.
- c. To clarify responsibilities of Facilities Department organizations

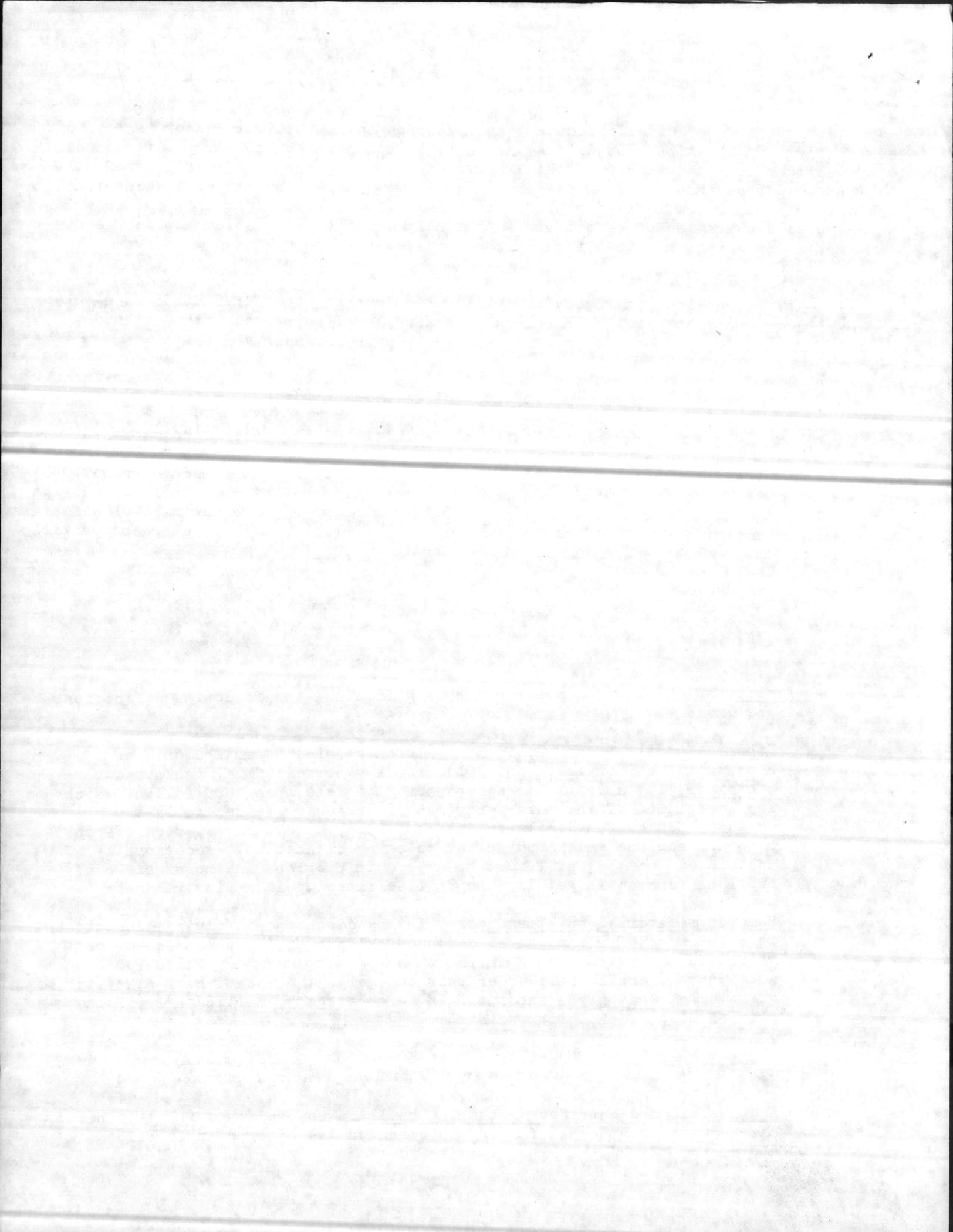
These guidelines cannot replace the good judgement of well trained personnel. However, by clarifying what is expected in various types of emergencies, decision making in situations involving minor spills can be shifted to lower level officials. Also clarifying senior officials authorities in cases of serious emergencies will help avoid needless delay in initiating action.

2. Definitions. For the purposes of these guidelines the following definitions will be used:

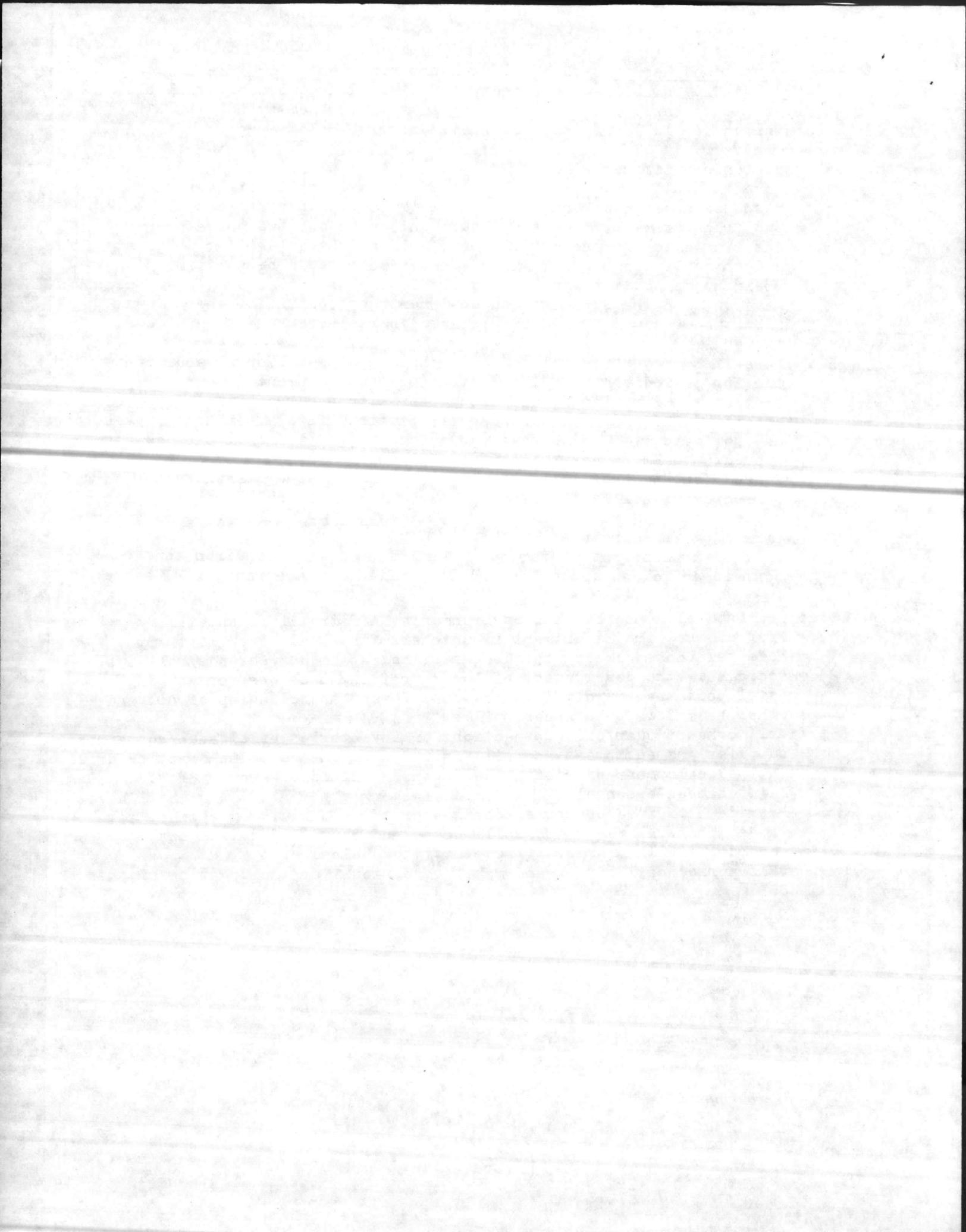
- a. Minor oil spill is any accidental discharge of 100 gallons or less of a petroleum oil or lubricant (POL) from any barrel, drum, tank or other container with a total storage capacity of less than 1000 gallons which in the opinion of the Fire Department representative (generally the captain of a company) will not reach a lake, creek, river, pond, marsh or other surface water body prior to being cleaned up. Additionally, containment of the spill must be in progress and no significant problems foreseen in getting the spill cleaned up in a timely manner.
- b. Hazardous material spill emergency is any discharge involving a substance which because of its physical and chemical properties poses an imminent threat to property, health or safety of people. While POL's would not generally fall under this category, the location or quantity of material may place the spill in this category, particularly if the risk of fire or explosion exists.
- c. Major oil spill is any oil spill of over 1000 gallons. or any spill which poses an imminent threat of over 100 gallons reaching surface waters.
- d. Routine oil and hazardous substance spill is any spill of POL or other hazardous substance not falling into one of the categories described above.

①

Enclosure



3. Preparedness and Readiness. Facilities organizations will take action required to have qualified personnel, supplies, and equipment available at all times to carry out the responsibilities assigned by BO 11090.1B. As a minimum the following will be provided:
- a. Base Maintenance Officer will:
- (1). Have the following personnel trained in basic spill emergency response and on duty or call at all times: two supervisors; two truck drivers; one heavy equipment operator; two operators familiar with the use of oil booms, skimmers, waste oil trucks, etc.; and three laborers. NOTE-These individuals would be performing their normal duties and would respond to emergencies only as required.
  - (2). Have on hand the supplies and equipment (or equivalent there to) shown in BO 11090.1B and be prepared to replenish these supplies if required.
  - (3). Establish preventive maintenance schedules for oil spill equipment and for periodically deploying/testing the equipment.
  - (4). Provide the Fire Department Dispatcher with a current procedure for obtaining Base Maintenance support, particularly, after hours, weekends, and holidays. ~~and~~ Update the procedures and related call back guidance provided to Emergency Maintenance Duty Officers, *AS required*.
  - (5). Budget for and provide initial and annual refresher training to personnel identified in paragraph 3a(1) above in Spill Response and related safety procedures. BO 6240.5 provides CPO assistance in arranging this training.
  - (6). Provide transportation for supplies and equipment required to contain and clean up spills and identified in Paragraph 3a(2) above.
- b. Director, Natural Resources and Environmental Affairs Division will:
- (1). Provide the Fire Department Dispatcher with a call back list with home telephone numbers for use after hours and on weekends/holidays.
  - (2). Coordinate the development of local training sessions for working level personnel involved in the containment and clean up of oil and other hazardous substances spills.
  - (3). Will conduct quarterly inspections of inventories of cleanup/containment supplies and equipment and will assist with the periodic practice drills in the deployment of specialized booms, skimmers, etc. by Base Maintenance Personnel.
  - (4). Provide a trained on scene coordinator to be on duty or call at all times, who will report to spill scene and carry out duties in accordance with ~~the enclosure~~ the enclosure.
  - (5). ~~Will~~ Periodically review and make suggestions for the updating of this SOP.



c. Base Fire Chief will:

- (1). Have on hand and in good working order, sufficient personnel protective equipment for both Fire fighters responding to a hazardous material emergency and those Base Maintenance personnel identified in paragraph 3(a)1 above.
- (2). In cooperation with Director NREAD and Base Safety Officer provide periodic training in the use of the safety gear and provide training in the hazards associated with response to hazardous material spills. The training should be designed for those persons identified in paragraph 3(a)1 above.
- (3). Provide training to fire fighting personnel on procedures to be followed in containing oil and hazardous material spills.
- (4). Establish liason with and coordinate emergency response with local government and civilian emergency personnel and agencies.
- (5). In cooperation with PMO and Family housing Director, develop procedures for evacuation of housing and industrial areas.

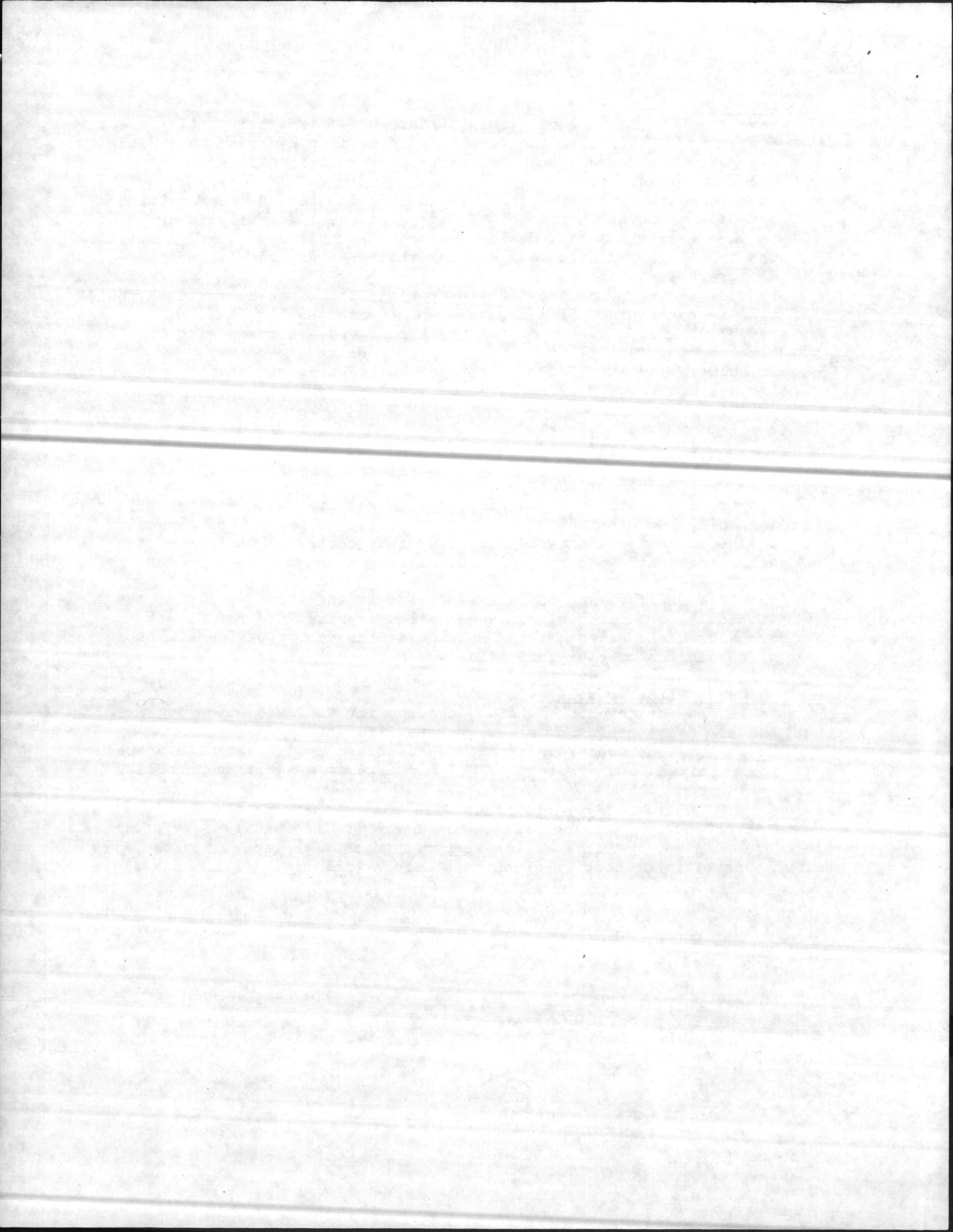
d. Public Works Officer will:

- (1). Provide all contractors working on Base specific guidance in writing regarding the contractor's responsibilities to report and to assist in the containment and clean up of spills caused by the contractor or occurring on the contractor's job sites.
- (2). In his capacity as ROICC, will ensure that inspectors are familiar with oil and hazardous substance spill reporting and response procedures, and address these considerations during review of/inspection of ongoing contractor activities.

e. Family Housing Director will:

- (1). Assist in the development of procedures for the evacuation of Base and Air Station Housing areas by Base Fire Chief.
- (2). Ensure that personnel under his cognizance are familiar with procedures for reporting and response to oil and hazardous substances spills.

4. Action. All Division Directors/Heads will ensure that cognizant supervisors and personnel under their cognizance are aware of the requirements of these procedures. Also, initiate action required to provide capability to carry out responsibilities described/assigned herein will be taken immediately.



INITIAL RESPONSE AND GENERAL RESPONSIBILITY FOR ON SCENE DIRECTION OF CONTAINMENT AND CLEANUP OF SPILLS

Base Fire Department Dispatcher will dispatch a fire fighting unit to each reported spill (the Captain of the unit will be in charge of the containment and cleanup of the spill until relieved as provided below)

Immediately upon arrival at the scene, the Captain will determine if the situation poses an imminent threat to the health or safety of people in the spill area

NO

Does the spill involve a minor spill of petroleum products?

Yes

The Fire Captain will remain in charge until the spill is contained. He will immediately request a Roads and Grounds Supervisor to report to the spill site and will determine what initial support from Base Maintenance is required to contain the spill. NREAD will not be called to these type of spill sites. (See NOTE 1)

As soon as spill contained, the Fire Captain will turn responsibility for cleanup over to the Roads and Grounds supervisor and will request permission to return to station. The Fire Captain will gather the following information about the spill and relay to NREAD.

- Location of spill
- Type and amount of material
- Time spill occurred
- Name and telephone of organization responsible for spilling item if can be determined at spill site

NREAD will report oil spills larger than twenty-five (25) gallons on land to the Division of Environmental Management, Wilmington (telephone 919-256-4161). If the spills are either on water or larger than 100 gallons, telephonic reports will also be made to USCG, Wilmington (FTS-671-4567) and EPA, Atlanta (FTS 257-3931). The latter situation will be followed up with a message. All required follow up will be done by NREAD unless otherwise assigned.

NREAD representative will assume the responsibility for directing containment of the spill upon arrival at the spill scene. The Fire Captain will remain on scene until released unless called away for another emergency. As soon as the spill is properly contained, NREAD will turn the cleanup of the spill over to the Roads and Grounds Supervisor

yes

Fire Captain should immediately notify Duty Chief that a hazardous material emergency exists.

Dispatcher will request Base Safety to come to spill scene

Dispatcher will request Natural Resources to come to spill scene

REFER TO ATTACHMENT (B) FOR HAZARDOUS MATERIAL EMERGENCY'S

Does the situation involve a spill of over 100 gallons on water or 1000 gallons on land

yes

Request NREAD (5003) to report to spill site.

NO

REFER TO ATTACHMENT (C) FOR MAJOR OIL SPILL RESPONSE

Dispatcher will notify NREAD (5003) or Emergency Maint. (3001) if after normal working hours, weekends, etc. Fire Captain will determine if assistance of NREAD is required to handle the spill. Also, determines assistance/support required from Base Maintenance to contain the spill. Relays request for NREAD/Base Maintenance assistance via the Fire Department Dispatcher

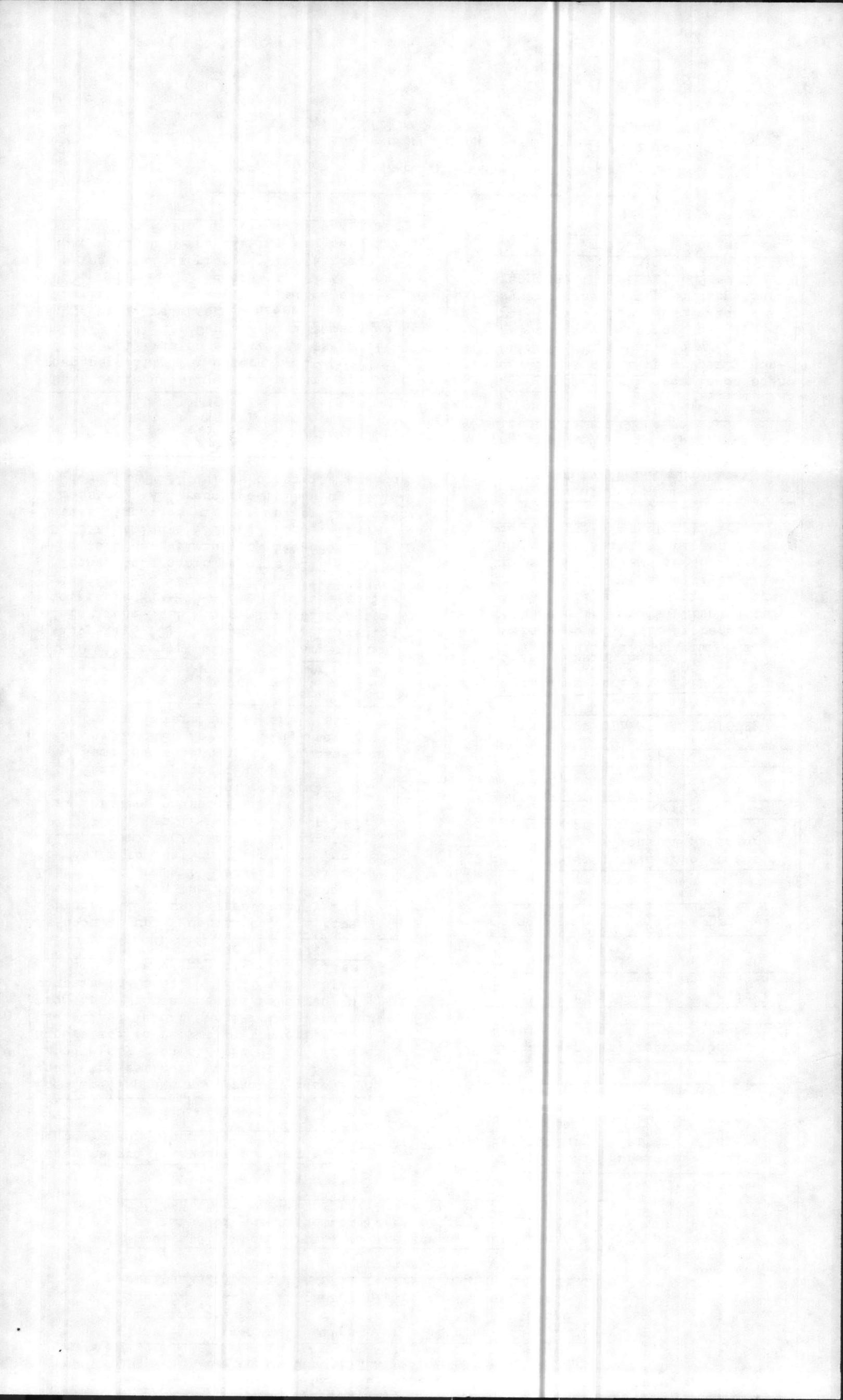
Fire Dispatcher will relay requests for NREAD and Base Maintenance support. Will request Roads and Grounds Supervisor to report to spill scene.

Fire Captain will remain on scene until the spill is properly contained. Fire Captain will be responsible for personnel safety relative to fire, explosion, fumes, gases, etc., during the response to the spill (See Note 1)

Did NREAD respond to the spill?

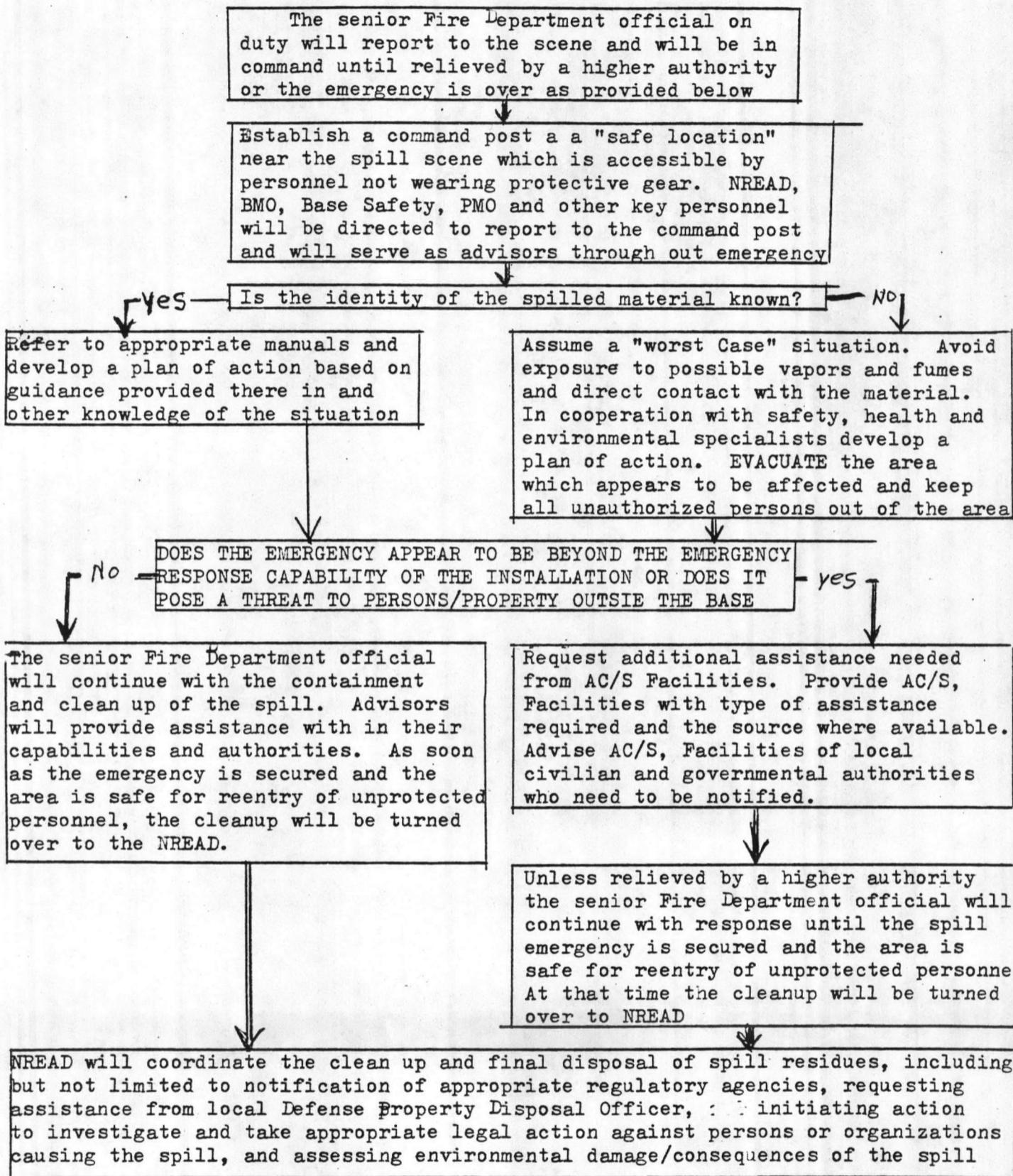
yes

Note 1. Should a situation arise posing a threat to safety/health of personnel/public, Duty Chief will be notified and procedures in Attachment (A) will be followed. Attachment (A)

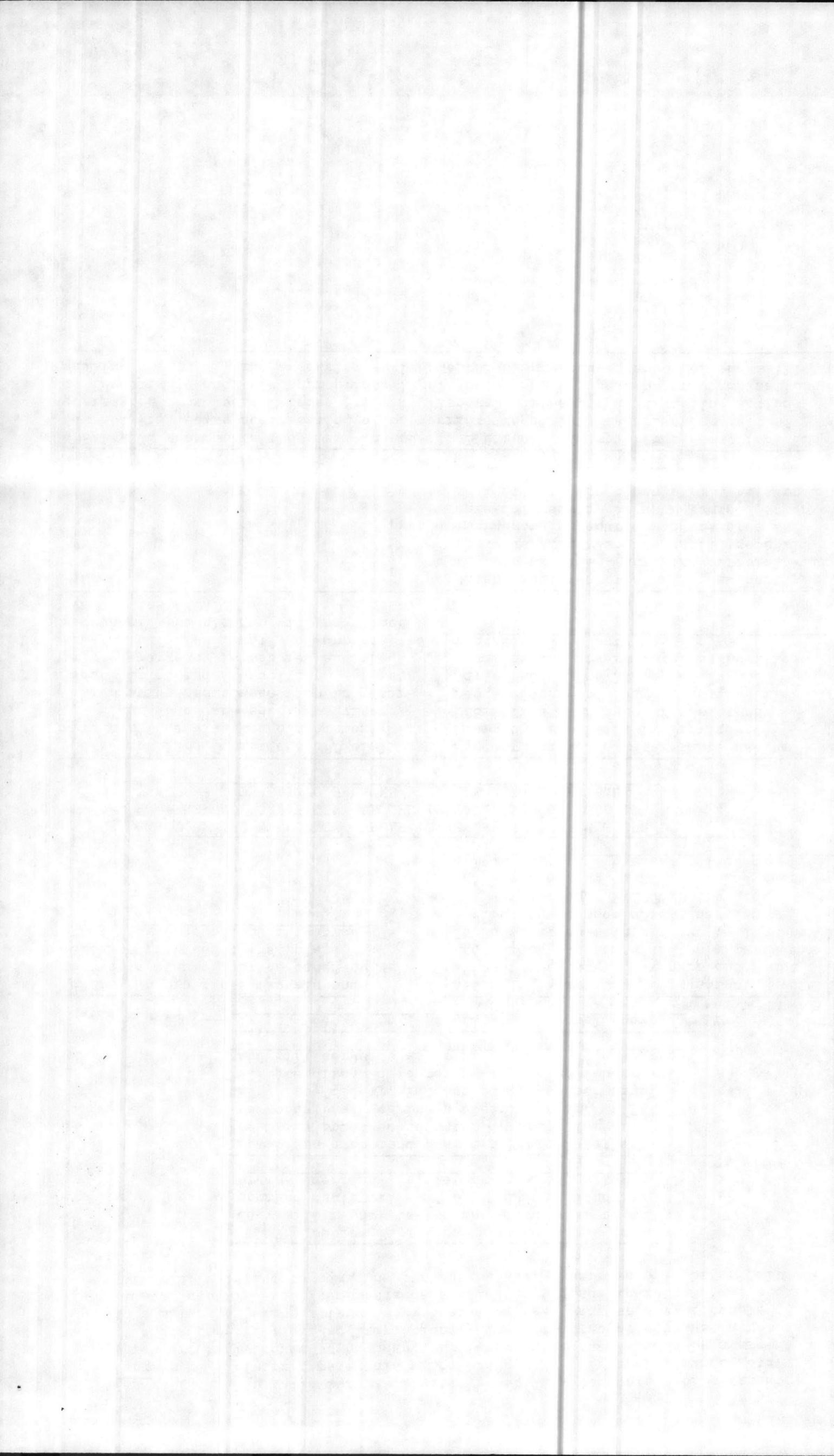


HAZARDOUS MATERIAL EMERGENCY RESPONSE PROCEDURES

1. General. The installation has limited capability to contain or clean up large spills of toxic materials which are giving off vapors, fumes, etc. which are highly toxic to humans. Emergency personnel should be aware of their capabilities and limitations. The first two objectives in response to a situation of this type is protect the health and safety of people and to identify what the substance spilled is and how to contain and secure the spill relative to human health and safety. Response will be as follows:



A H Attachment (B)



2. Safety and Health Considerations. Avoiding unnecessary exposure of the public and personnel to toxic chemicals, their vapors and fumes, and fires and explosions which may occur requires prompt, firm action by trained personnel. Because expertise in all fields of knowledge required to deal with problems arising during emergencies is spread among several organizations, some one official must assume command and make sure that required staff specialists and other resources required are made available. This responsibility is assigned to the Base Fire Chief. All organizations within the Facilities Department shall provide the support requested by the senior Fire Department official *(within the constraints of their legal authority)*. Particular attention will be paid to having contingency plans in effect which eliminate needless delay in reacting to requests. Timely warnings and prompt evacuations of affected areas must be accomplished. Obstacles incurred should be immediately identified to higher authorities for resolution.

(2)

Attachment (B)



PROCEDURES FOR RESPONSE TO MAJOR OIL SPILLS

1. General. Major oil spill differ from Hazardous material emergencies in that there is no imminent threat posed to the health or safety of persons. A separate procedure has been developed because these spill either pose a significant threat to the environment or because environmental regulations require paticularly stringent and prompt response and corrective action. Also, generally major oil spills will not require the degree of involvement of safety, public health, and police officials. Also, evacuations of personnel and public is not as impoortant of a consideration.
2. Response Procedures. The following procedures will be followed in dealing with "major oil spills."

A representative of the Director, NREAD will report to the scene and assume over-all responsibility for containment and clean up of the spill. The Fire Department will stand by until released by the NREAD representative. In particular the Fire Department will monitor the scene for fire and explosion related hazards, and is authorized to assume command if an imminent risk develops which is not addressed promptly

AC/S, Facilities will be immediately notified of all major oil spills. NREAD will make all required telephonic reports to the Coast Guard(FTS 671-4567), the Division of Environmental Management(919-256-4161) and the EPA (FTS 257-3931). The NREAD on scene coordinator (OSC) will request required support to contain and clean up the spill. The Fire Department Truck/radio will be utilized for communications. Fire Dispatcher will coordinate communications.

IS CONTAINMENT AND CLEAN UP OF SPILL BYOND LOCAL CAPABILITY

NO

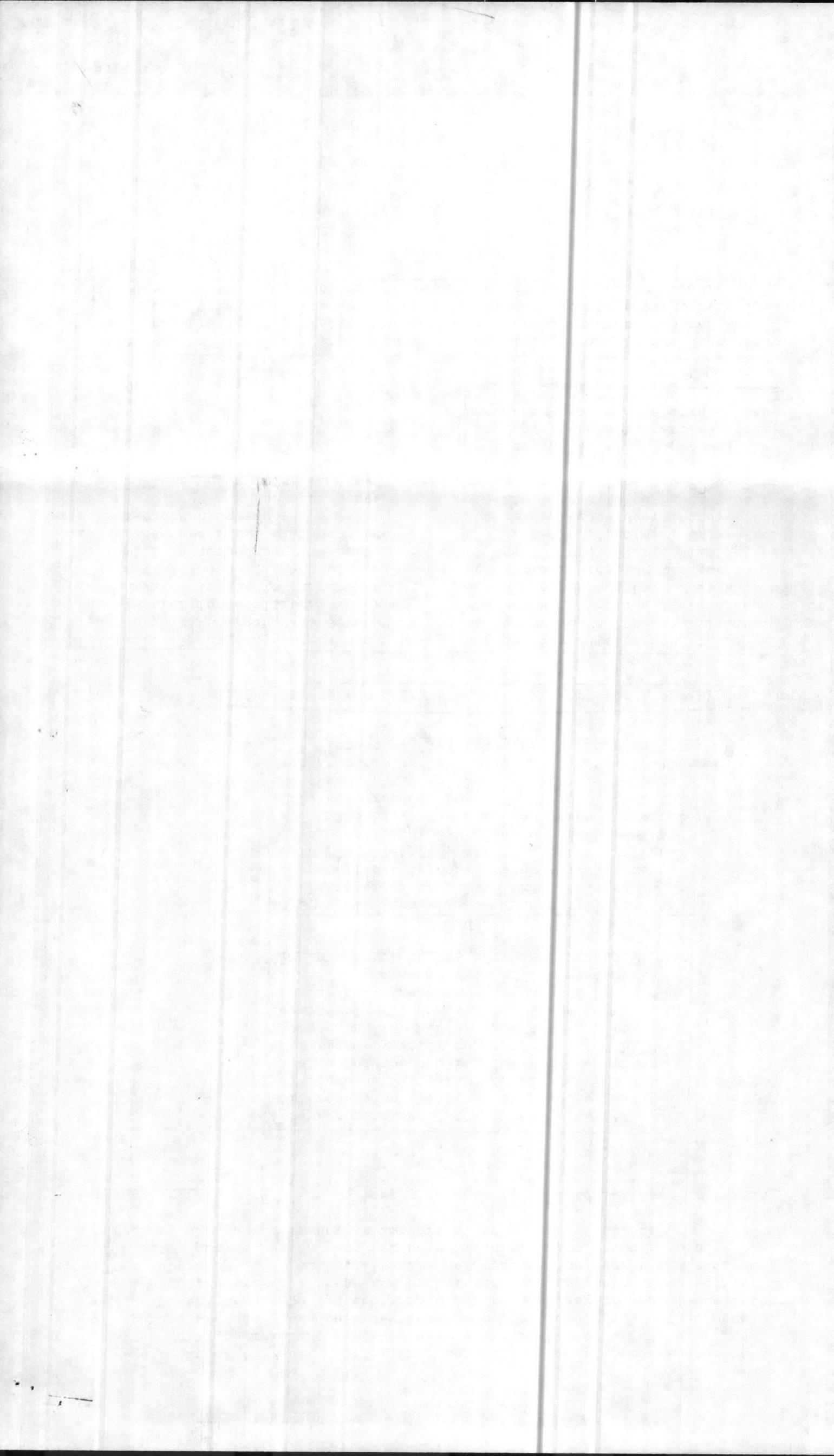
yes

NREAD will direct containment and clean up until emergency is secured and potential for additional adverse environmental impact is eliminated. At this time the mopping up of the spill will be turned over to Base Maintenance and NREAD will continue to spot check progress and will respond to requests for assistance with problems which arise.

Request for outside assistance will be forwarded to AC/S, Facilities. The request will include recommended action and suggested source. This will usually result in requesting the assistance of the US Coast Guard, Wilmington, N. C (FTS 671-4767) who will assume role as Federal On Scene Coordinator. Spills of this type will be handled on a case by case basis. Once the Federal OSC relinquishes control of the spill back to Base, NREAD will supervise the cleanup of the spill and will make necessary progress reports to the regulatory agencies and Federal OSC.

NREAD will make all required reports to local, state and Federal agencies for signature by AC/S, Facilities and will initiate action required to investigate the incident, determine corrective action to prevent reoccurrence to recommend legal action, and to assess environmental impact of the spill

Attachment(C)



# Summary

File 11090

CFR 40, Parts 100 to 149

## Part ~~100~~ 110 - Discharge of Oil.

These reg's apply to discharge of oil into or upon the waters of the U.S., adjoining shorelines or into or upon the waters of the contiguous zone, prohibited by section 311(b)(3) of the Federal Act.

### 110.3 Harmful discharge

(a) Violates applicable water quality standard

(b) Causes a film or sheen upon surface or causes deposit of sludge or emulsion on adjoining shorelines or beneath surface of water.

110.5 Discharge of 110.3 is prohibited.

110.6 Discharge from properly functioning vessel engine is not deemed to be harmful; but such oil accumulated in a vessel's bilges shall not be so exempt.

### 110.7 Dispersants

Addition of dispersants or emulsifiers to oil to be discharged which would circumvent the provisions of this part is prohibited.

## Part 112 - Oil Pollution Prevention

### 112.1 Applicability

(a) This part establishes procedures, methods and equipment & other requirements for equipment to prevent the discharge of oil.

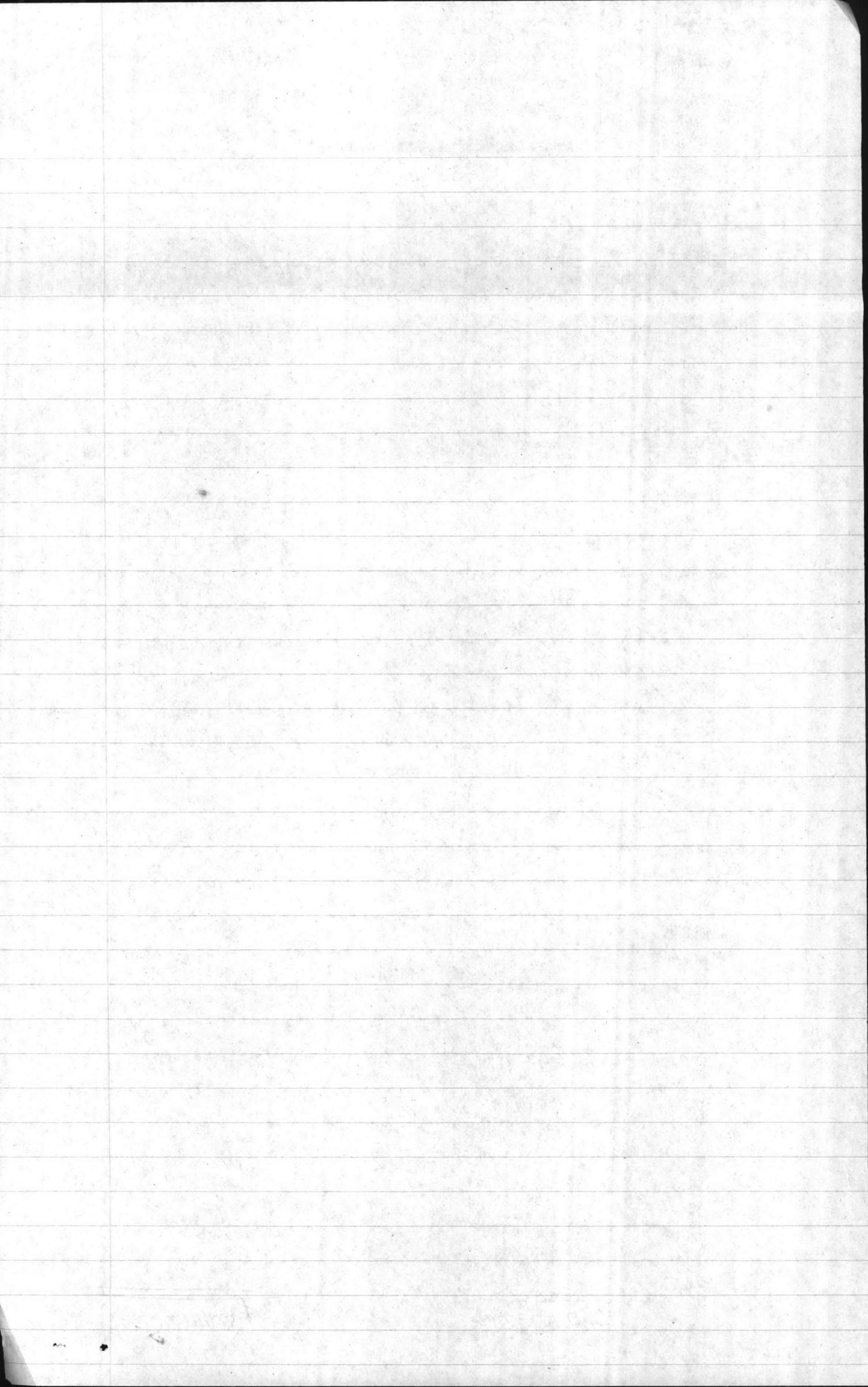
(b) This part does not apply:

(1) Tac. not subj. to EPA.

(2) Tac. which meet following

i) underground capacity  $\leq$  42,000 gallons

ii) above ground capacity  $\leq$  1320 gallons & largest container  $\leq$  660 gallons



112.7 Guidelines for prep. of SPCC Plan.

(c) Appropriate containment and/or diversionary structures should be provided - Minimum considerations are:

(1) Onshore facilities.

(i) - (vii)

(e) In addition to above, following apply:

(1) Facility drainage

- from diked area must be valved,  
manual open and close.

Retained storm water to be released directly into water courses should be inspected as provided in (B), (C), (D), e(2)iii.

(B) Inspection of raw water runoff ensures compliance w/ CFR 110.

(C) Valve open & shut under responsible supervision.

(D) Adequate records are kept of such events.

(V) Partially buried metallic tanks should be avoided unless the buried section of shell is adequately ~~cast~~ coated.

(2) Bulk Storage Tanks

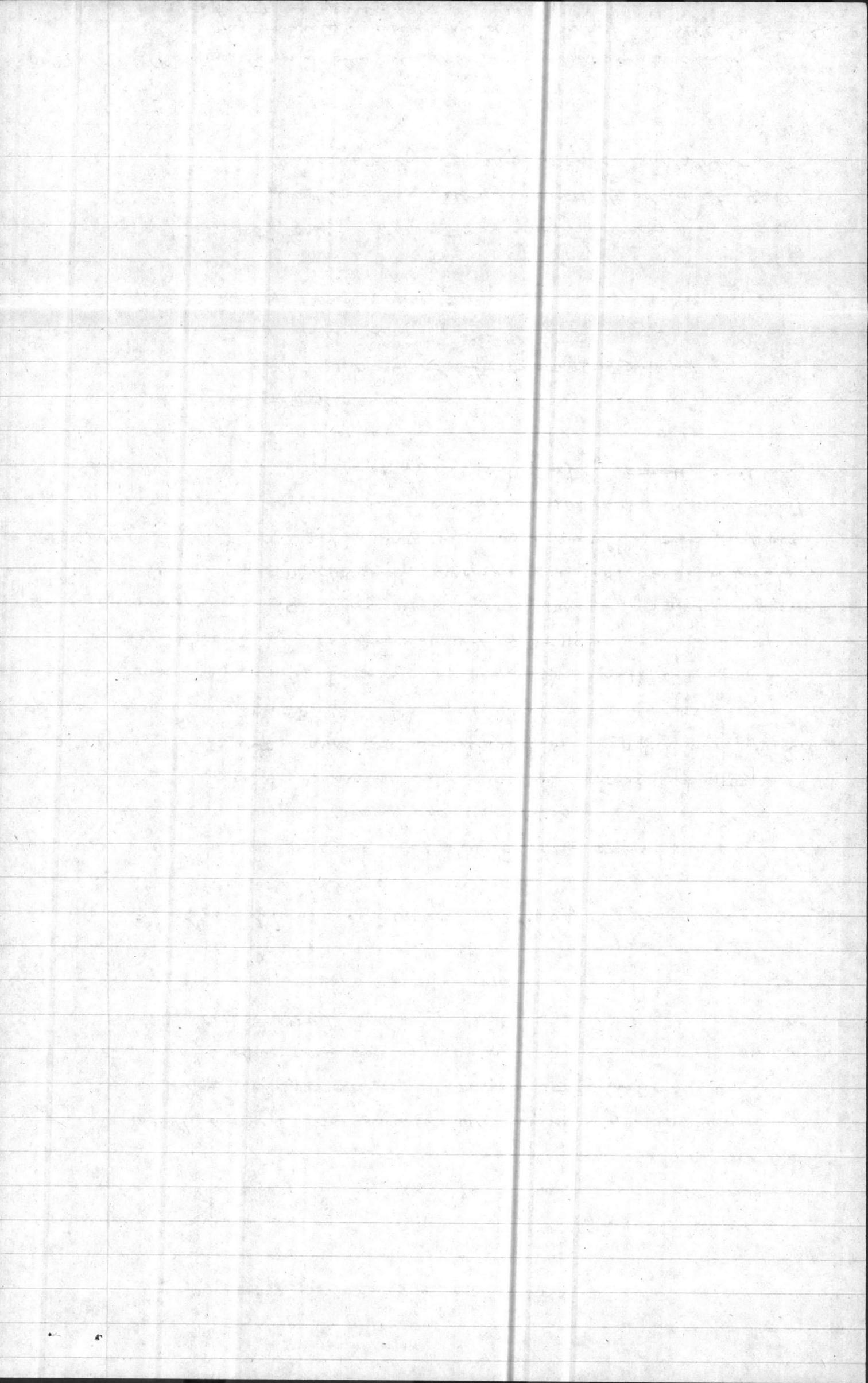
(ii) secondary means of treatment containment,  
and B-D above.

(3) Facility transfer operations.

(4) Facility tank car/truck loading/unloading.

a containment system required to hold at least max. capacity of any single compartment.

(8) Inspections should be IAW written procedures developed at the facility. These should be part of the SPCC & should be kept for 3 years.



(9) Security. oil storage

- (i) ① fully fenced,
- ② entrance gates locked.

Tanks

(ii) ① master flow & drain valves that permit outward flow of the tank's contents to surface should be locked in closed position when in non-operating status.

(iii) Starter control should be locked in "off" or located where only accessible to authorized personnel.  
(pumping equip).

Part 113 - Liability Limits for Small Onshore Storage Facilities

113.1 Small =  $\leq 42,000$  gallon capacity.

113.4 Liability = a table of listings of \$ amounts

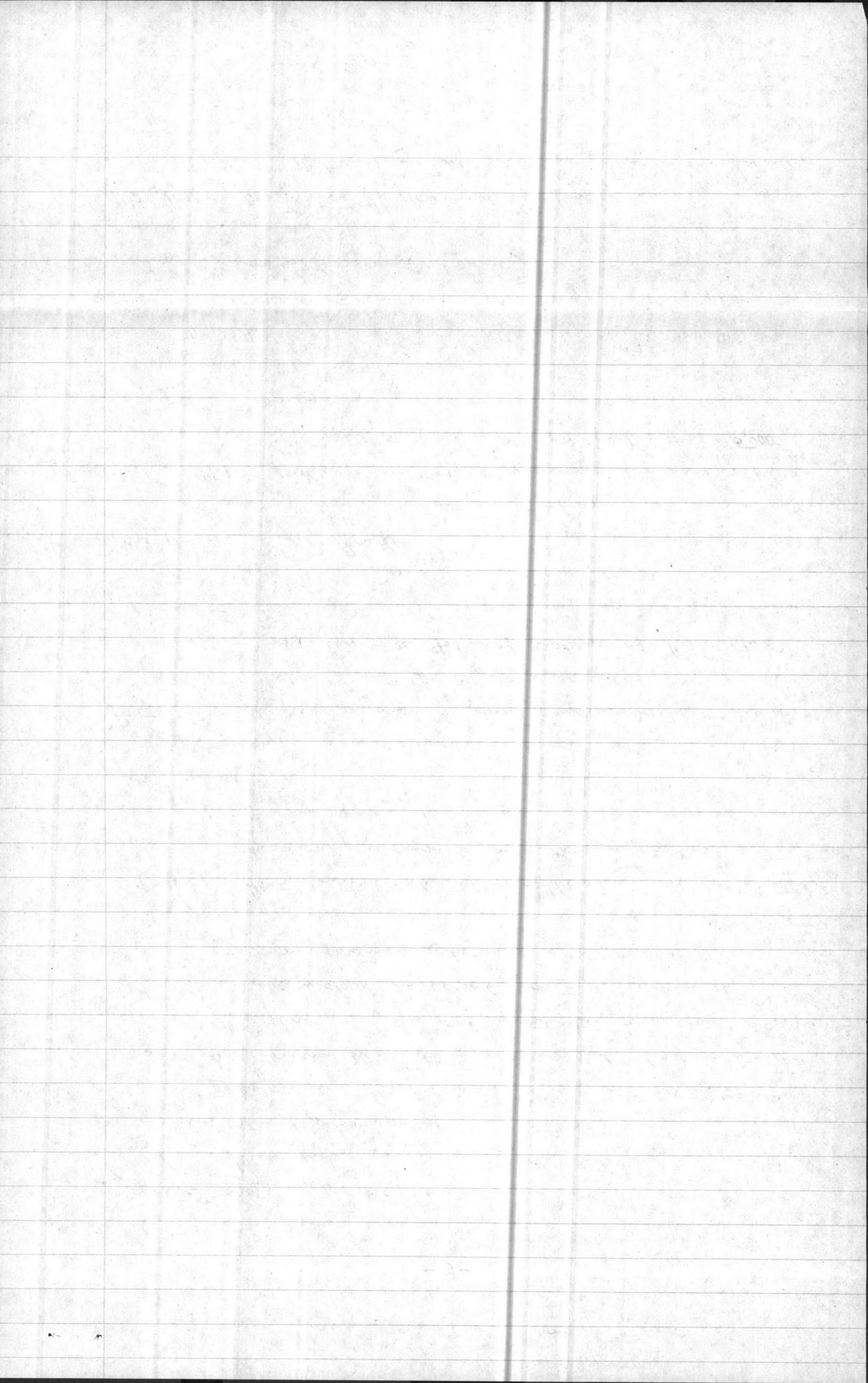
Part 114 - Civil Penalties

114.1 failure to comply w/ provisions of 112.3, 112.4 or 112.5 will result in civil penalty not greater than \$5,000 per day.

114.2 Violation - owners/operators responsible for all aspects of Part 112, including review of plan every 3 years (112.5)

Part 116 - Designation of Hazardous Substances

116.1 Materials in Table 116.4 are hazardous substances.



Part 117 - Determination of Reportable Quantities for Hazardous Substances.

117.3 Table of reportable substances.

117.11 Applicability

discharges  $\geq$  RQ when discharged into or upon the navigable waters, adjoining shorelines, etc.

exceptions list



117.12 Applicability to NPDES permits.

does not apply to

(1) discharges in compliance w/ a permit under section 402 of this Act.

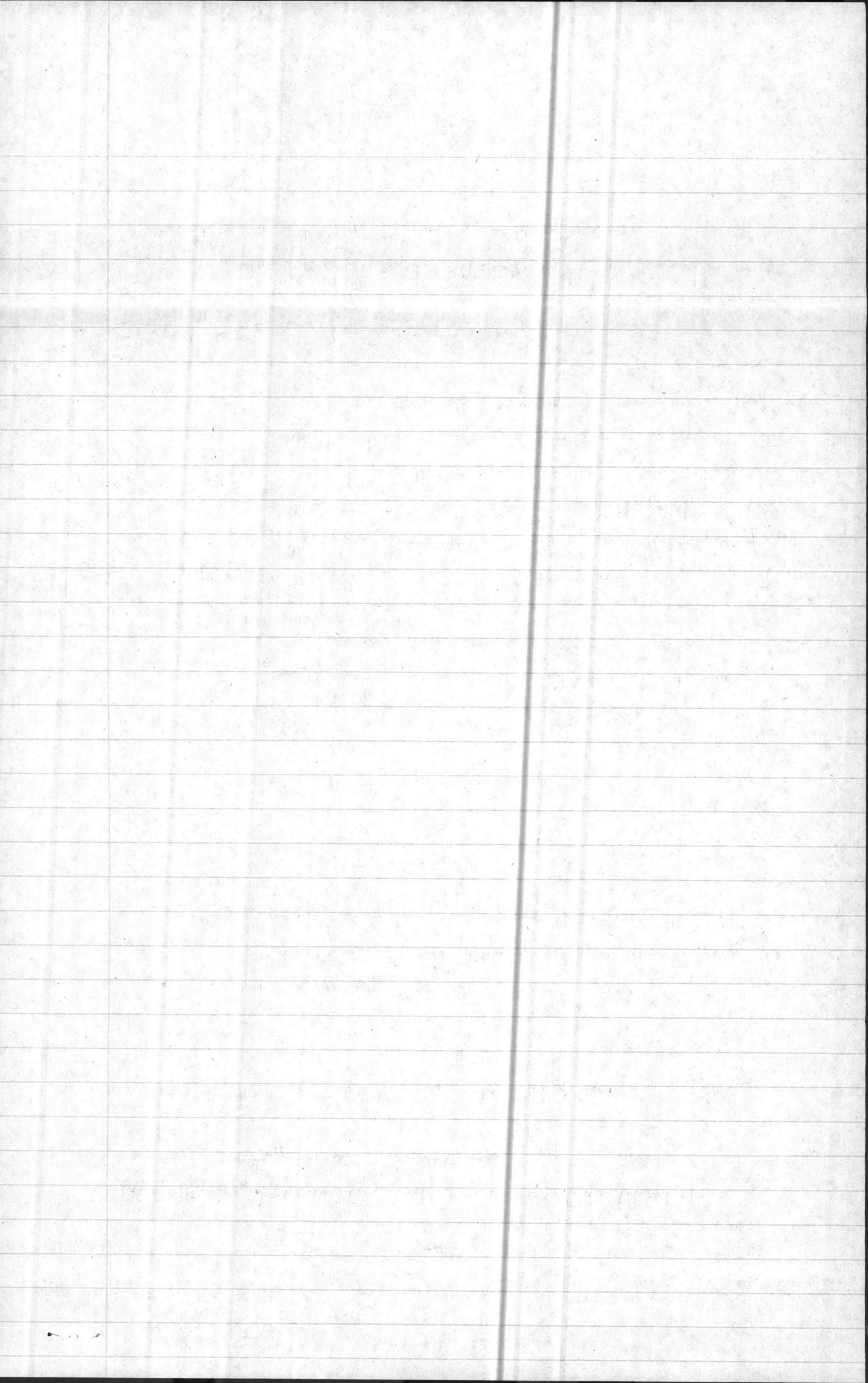
117.13 Applicability to discharges from POTW.

it applies <sup>to</sup> ~~to said facilities~~ all discharges of RQ to a POTW where the discharge originates from a mobile source, except where such source has contracted with or otherwise received written permission from the owners or operators of the POTW.

Subpart C

117.21

Any release  $\geq$  RQ within 24 hr. period must be reported immediately to appropriate agency.



Part 120 - Water Quality Standards

Part 122 - EPA administered permit programs: the NPDES, etc.

(i) Hazardous Waste Management

RCRA

(ii) Underground Injection Control

SDWA

(iii) NPDES

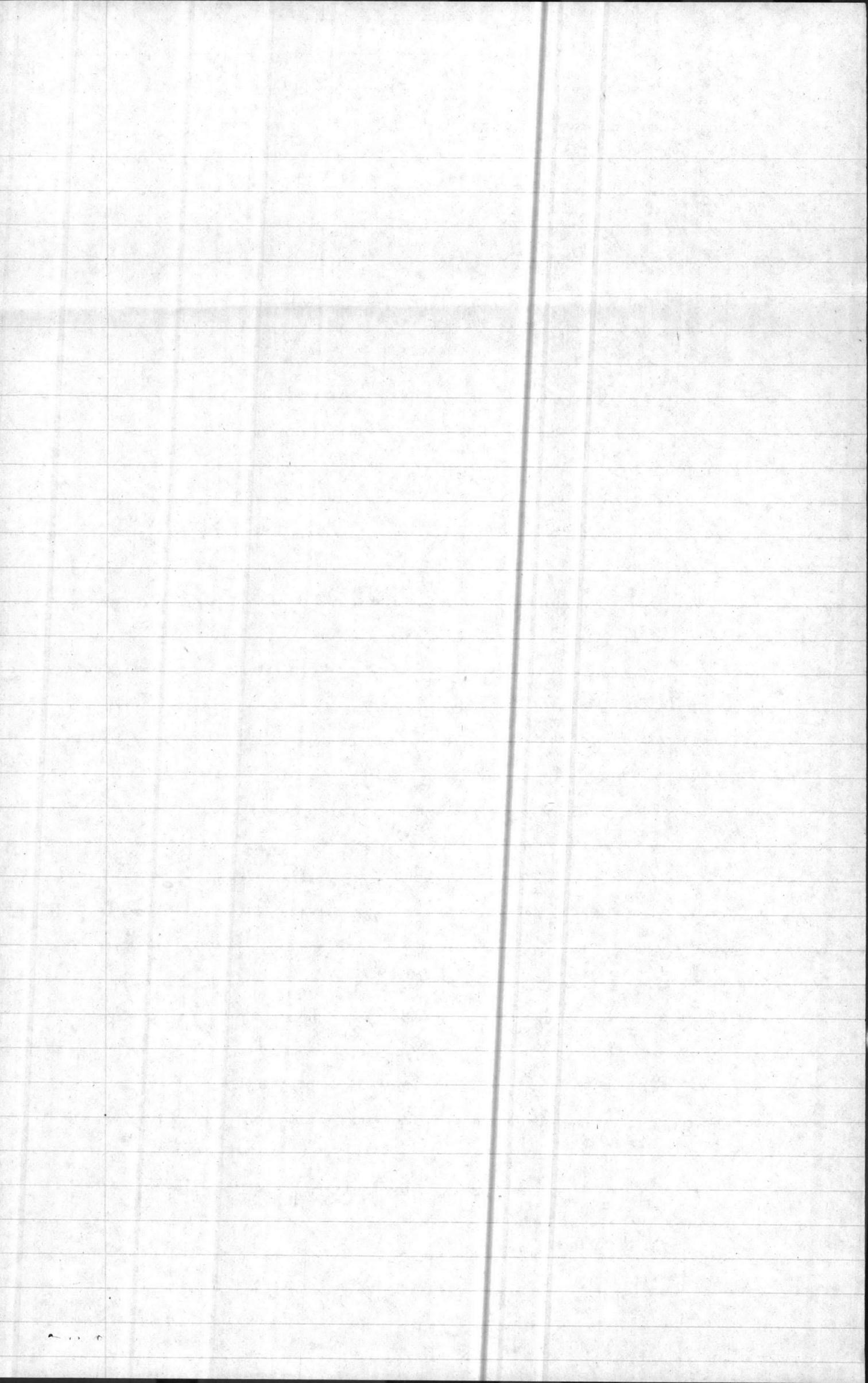
CWA

(iv) Dredge or Fill (404)

CWA

(v) Prevention of Significant Deterioration

Part 123 - State Program Requirements



40 CFR 110.

discharge \* includes but not limited to "any spilling, leaking, pumping, pouring, emitted, emptying or dumping."

discharge <sup>into navigable waters</sup> is harmful if it a) violate water quality standards  
b) or causes a film or sheen

"Spill event" a discharge as defined in 40 CFR 110.

"Navigable waters includes tributaries of such waters."

"Oil" - oil of any kind or in any form, including, but not limited to petroleum, fuel oil, sludge, oil refuse, & oil mixed w/ wastes other than dredged spoil."

### Part 116 - Designation of Hazardous Substances

"Discharge includes, but is not limited to, any spilling, ... or dumping, but excludes (A) discharges in compliance with a permit under section 402 of this Act, (B) discharges resulting from circumstances identified and reviewed and made part of the public record w/ respect to a permit issued or modified under section 402 of this Act and subject to a condition in such a permit, and (C) continuous or anticipated intermittent discharges from a point source, identified in a permit or permit application under section 402 of this Act, which are caused by events occurring within the scope of relevant operating or treatment systems, if

- (1) The hazardous substance is discharged from a point ~~to~~ source for which a valid permit exists or for which a permit application has been submitted; and
- (2) The discharge of the hazardous substance results from

- (1) The contamination of noncontact cooling water or storm ~~down~~ water, provided that such water is not contaminated by an on-site spill of a hazardous substance; or



(ii) a continuous or anticipated intermittent discharge of process waste water, and the discharge originates within the manufacturing or treatment systems;

117.12 Applicability to discharges from facilities w/ NPDES permits.

The reportable quantity regs do not apply to:

(1) ~~Discharges in con~~ The above listed discharges - A, B, and C.

117.23 Liabilities for removal.

Amounts equal to or in excess of RQ must be cleaned up w/ owner, operator or person in charge being liable for actual costs of removal of the substance.

Department of Education  
Washington, D.C. 20540

Office of the Secretary  
Washington, D.C. 20540

Division of International Education  
Washington, D.C. 20540

Office of the Assistant Secretary  
Washington, D.C. 20540

Waste Oil Locations - 500 gallon tanks, unless  
otherwise stated.

M #171

M #101

M #119

TT #2453

#45 (1,000 gallon)

#2615

#1916

#728

#1750

#1755

#1780

#1502

#1841

#1601

#1604

#1309

#1505

#1607

#1205

#1106

#1736

#1703

#1711

#900 Area (2 Tanks - 500 gallons each)

#1800<sup>+</sup> Area (6 Tanks - 500 gallons each)

#1450

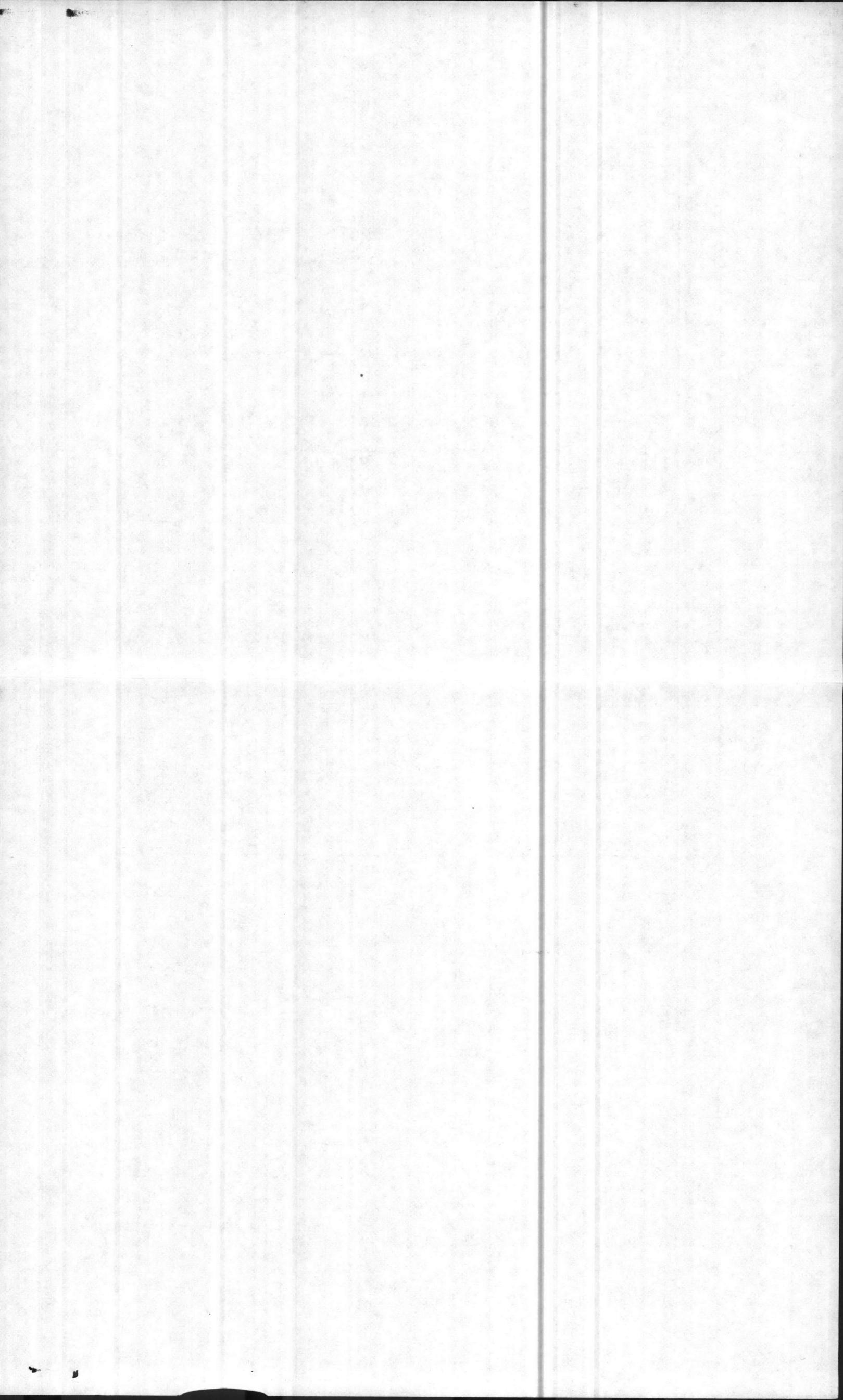
#1775 (3 Tanks - 500 gallons each)

#1809

#739

#FC 200 (2 Tanks - 500 each)

#FC 100 (2 Tanks - 500 each)

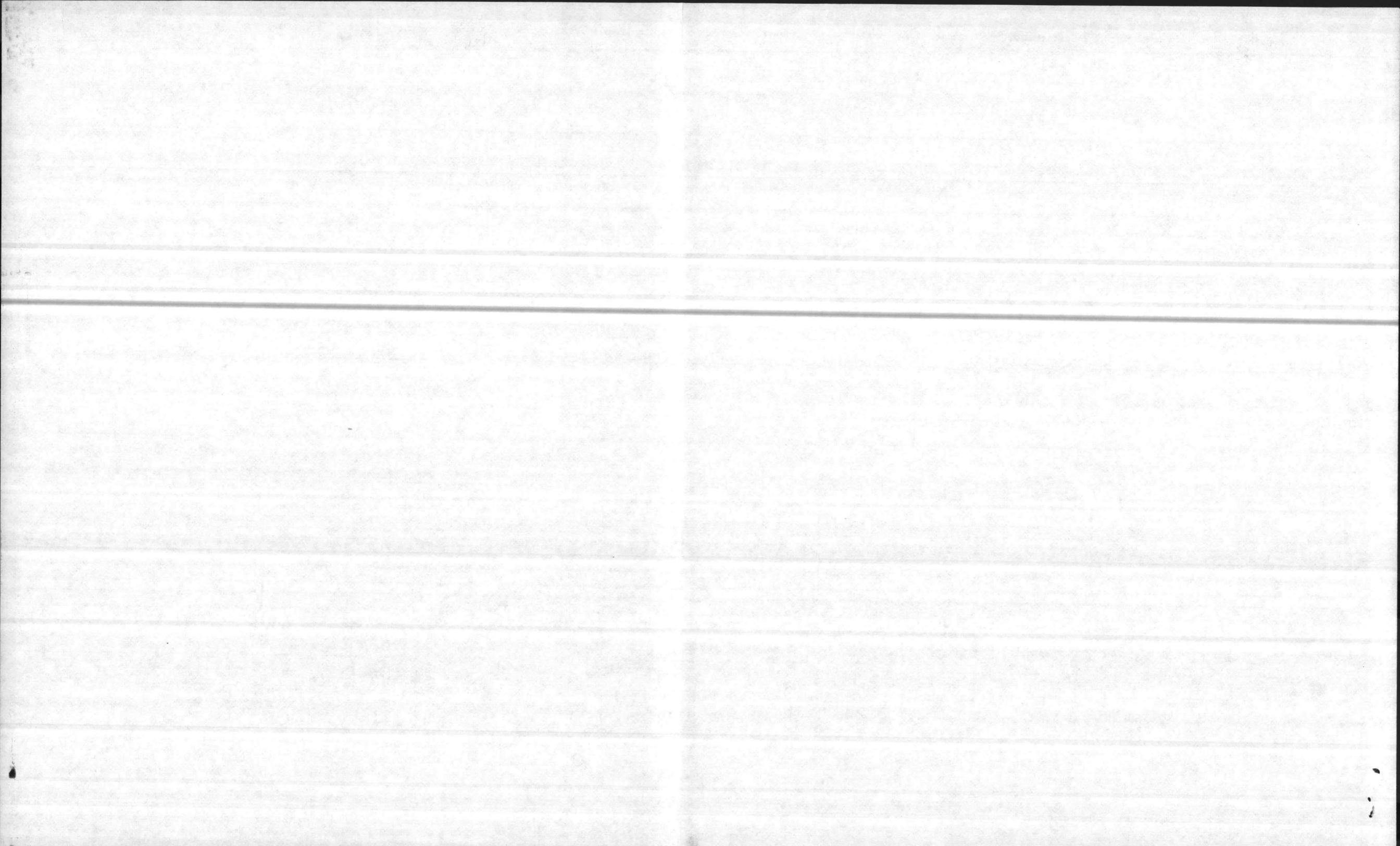


FC-241  
 FC-251  
 G-650  
 TC-942  
 TC-774  
 TC-862  
 RR-15  
 RR-14  
 A-2  
 A-3 (1,000 gallon)  
 A-11  
 BB-9  
 SBB-161  
 BA-130  
 AS-3504  
 AS-118  
 AS-4108  
 AS-518  
 AS-4147  
 AS-109  
 GP-1 (3 500 gallon tanks)

Oil Skimming - About 180 day service interval on average.

Oil/Water Separators

M #101	#1604
M #119	#1407
<del>Structure I-H at Mont</del>	#1309
#45	#1505
PP #2615	#1607
<del>PP</del> #1755	#1205
#1780	#1203
#1502	#1106



Oil-Water Separators (cont)

#1114

#1104

#37

#1703

#1711

#1450

#1775

#739

G.P. 816

FC 200

FC 100 (a)

FC 100 (b)

FC-251

FC-241

TC-774

TC-862

RR-14

A-1

A-11

BB-52

BA-130

AS-118

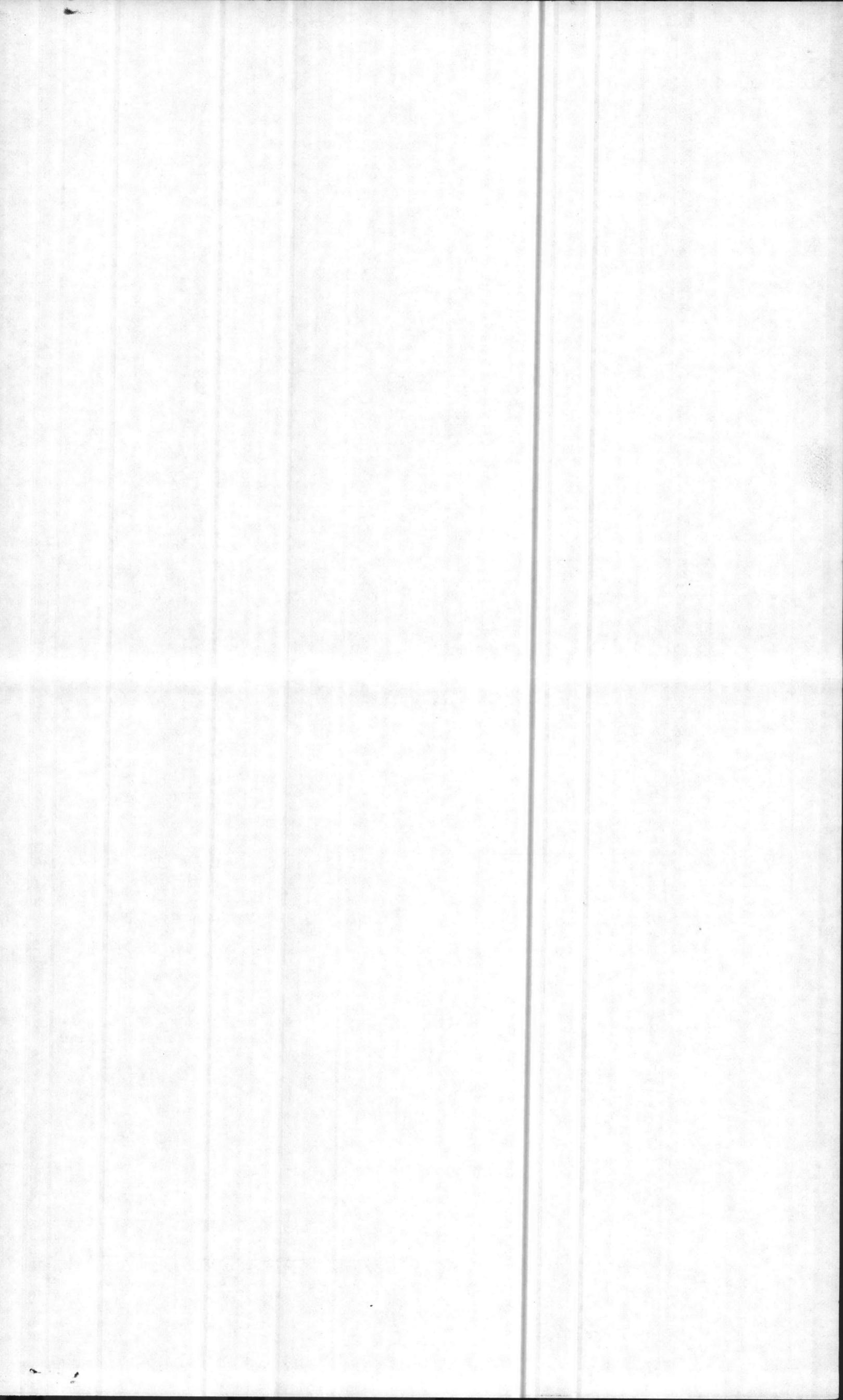
AS-4108

AS-518

AS-514

AS-109

"



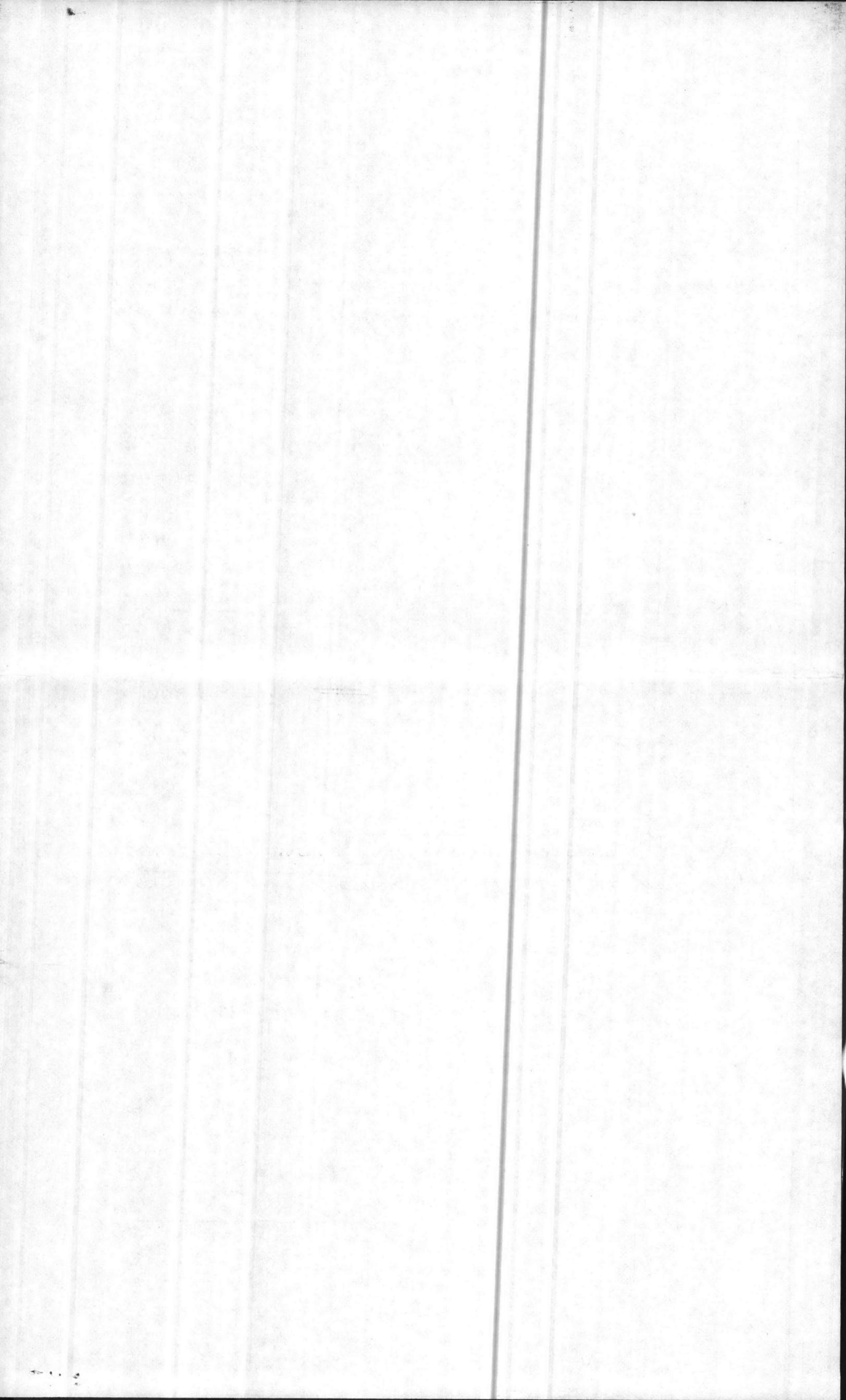
Storm-Water Storage Tanks

- #900 Area
- #1800 Area
- #1750
- #A-3 (A)
- #A-3 (B)
- AS-3504
- AS - FIRE TRAINING ~~AREA~~ PIT
- HP - FIRE TRAINING PIT

Require Service Following Spills (1 per year average)

- M#625
- M#230
- #45
- #4015
- PP#2615
- #1004 (Fuel Farm)
- #1736
- G-650
- Geiger Fuel Farm
- RR-15
- A-11
- BB-9
- MCAS (Fuel Farm)
- AS-143
- Air Station Boiler Plant ~~and~~ o/w Sep & unloading pad,

Spills and Training Exercises result in occasional quantities of P.O.L. - location and frequency not predictable.





UNITED STATES MARINE CORPS  
MARINE CORPS BASE  
CAMP LEJEUNE, NORTH CAROLINA 28542

BO 11090.1B  
MAIN/DDS/th  
28 May 1981

BASE ORDER 11090.1B

From: Commanding General  
To: Distribution List

Subj: Oil Pollution Prevention and Abatement and Oil and Other Hazardous Substances Spill Contingency, Plan

Ref: (a) MCO P11000.8A  
(b) Resource Conservation and Recovery Act (RCRA) of 1976 (NOTAL)  
(c) Clean Water Act (NOTAL)  
(d) Oil Spill Prevention Control and Countermeasure Plan of 10 June 1978, Camp Lejeune, NC (NOTAL)

Encl: (1) Oil and Hazardous Material Spill Prevention, Containment, Cleanup and Disposal Guidelines  
(2) Oil and Other Hazardous Material Spill Contingency Plan

1. Purpose. To revise existing oil and other hazardous material related pollution abatement and prevention procedures for Marine Corps Base, Camp Lejeune and Marine Corps Air Station (Helicopter) (MCAS(H)), New River and to assist the Commanding General in the implementation of reference (a) with respect to pollution abatement.

2. Cancellation. BO 11090.1A.

3. Policy. It is the continuing policy of the Commanding General to actively participate in environmental pollution abatement, to take positive planning and programming action to abate and correct oil and other hazardous materials, related pollution problems and to incorporate appropriate pollution control and prevention facilities in all new construction aboard this installation. The intent of this policy is to carry out the applicable measures of references (a), (b), (c) and (d) and to prohibit the discharge of oil, oily mixtures and other hazardous substances except in designated areas by authorized personnel.

4. Responsibilities

a. Base Maintenance Officer has overall responsibility for:

(1) Maintenance of water pollution abatement facilities and the central storage and related collection and transportation of waste petroleum products.

(2) Providing personnel required for routine monitoring, surveillance, upchannel reporting and enforcement of unauthorized discharges of oil and other hazardous materials and related significant environmental problems of an ongoing nature involving the handling and disposal of petroleum products and other hazardous materials regulated by references (a), (b) and (c).

b. Commanding Officers/Area Commanders are charged with the responsibility of preventing spillage and other unauthorized discharge of oil and other hazardous materials within their own areas and will develop and implement plans and procedures which are consistent with applicable regulations and enclosures (1) and (2) for preventing, reporting, containing and cleaning up such spillage or unauthorized discharge.

c. Director, Natural Resources and Environmental Affairs Division, Base Maintenance Department or his representative will assume responsibility of On-Scene Coordinator (OSC) upon arrival at the scene of an oil or other hazardous material spill in accordance with procedures outlined in references (a) and (b) and enclosure (2).

d. Base Fire Chief or his senior representative will provide initial response and other assistance with any spill of oil or other hazardous material as outlined in enclosure (2), until a verification is made that the reported spill has occurred in an aircraft operating area aboard MCAS(H), New River. If the latter situation exists, the Base Fire Chief will provide a standby crew to assist, if the crash crew MCAS(H), New River is unable to contain the spill within the aircraft operating area.

e. Crash Crew, MCAS(H), New River will develop and implement a written procedure for the initial response to and containment and cleanup of oil and other hazardous materials spills in aircraft operating areas aboard MCAS(H), New River. Procedures will be consistent with applicable regulations and enclosure (2).

5. Action. Discharge of oils or other hazardous materials on or into the grounds and streams of this installation is prohibited. Cognizant officers will take necessary action to assure compliance. Commanding Officers/Area Commanders shall conform to the standards and criteria set forth in enclosures (1) and (2).

BO 11090.1B

28 MAY 1981

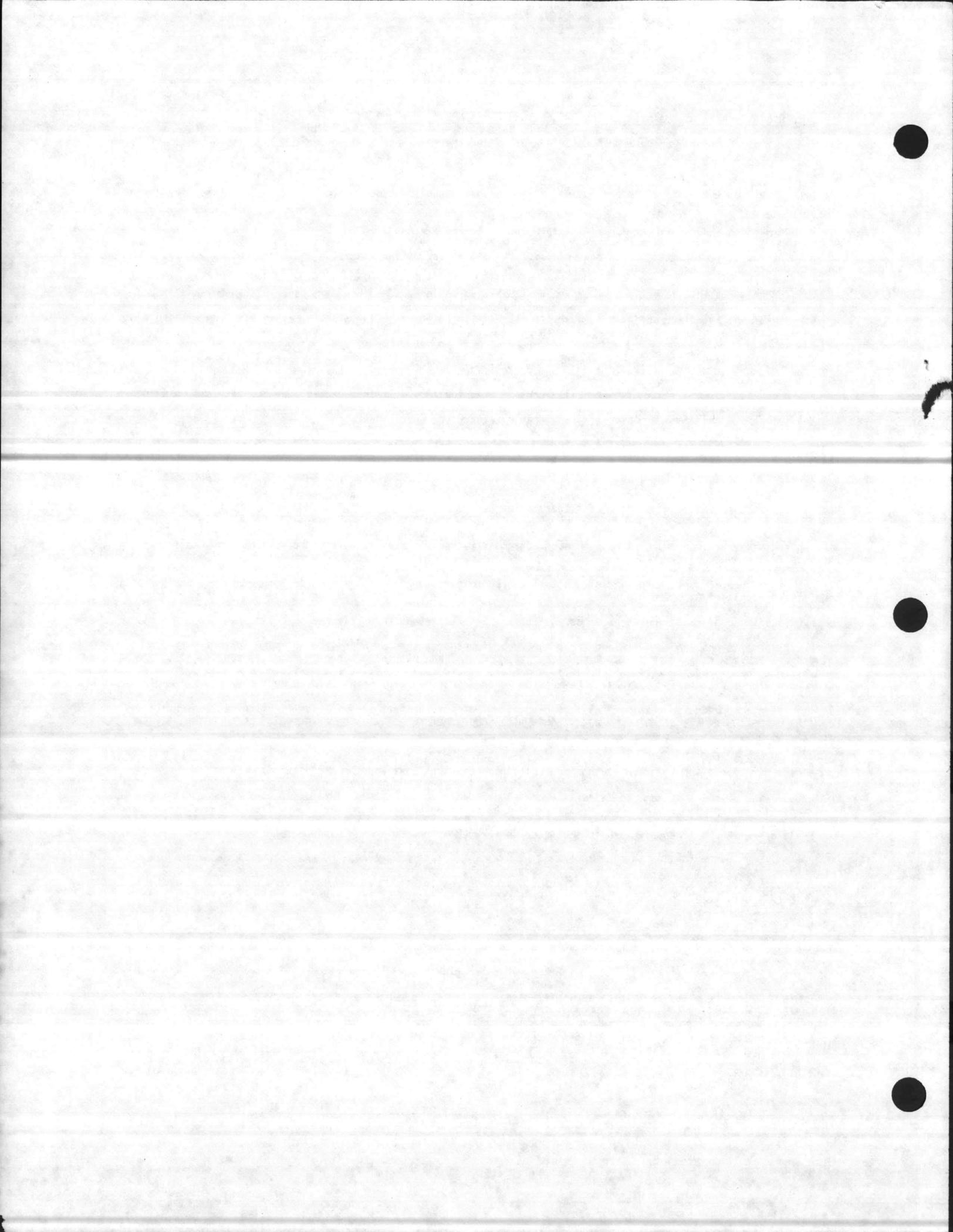
6. Applicability. Having received the concurrence of the Commanding Generals, 2d Marine Division, FMF; 2d Force Service Support Group, (Rein), FMFLANT; and the Commanding Officers of the Marine Corps Air Station (Helicopter), New River and tenant units; Naval Regional Medical Center; and Naval Regional Dental Center, this Order is applicable to those Commands.

*J. R. Fridell*  
J. R. FRIDELL  
Chief of Staff

DISTRIBUTION: A  
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OIL AND HAZARDOUS MATERIAL SPILL PREVENTION, CONTAINMENT, CLEANUP, AND DISPOSAL GUIDELINES

1. The prevention of oil and hazardous-material spills and the resultant environmental damage is the responsibility of all Commanders.
2. All Commanders and Department Heads will publish and prominently post directives setting forth detailed policies and procedures for the control and prevention of oil and hazardous-substance pollution specifically applicable to their organization.
3. All Commanders and Department Heads will take the following actions:
  - a. Take positive measures to prevent spills of oil and hazardous substances to include a review of the Command's maintenance and operational procedures.
  - b. Conduct frequent inspections of areas and facilities assigned to ensure compliance with published procedures.
  - c. Establish immediate action procedures for the amelioration of pollution which may result from oil and hazardous-substance spills, to include the stocking of materials required to carry out the procedures.
  - d. Ensure that all personnel within their Command are thoroughly indoctrinated regarding the environmental impact of oil and hazardous substance spills and proper disposition of oil and hazardous substances.
  - e. Encourage maximum reuse of technically contaminated fuels by multifuel-engine powered tactical vehicles.
4. The following guidelines are generally applicable to garrison operations:
  - a. Contaminated fuels which cannot be burned in tactical vehicles and other used petroleum products, except gasoline, will be collected in a tank of at least 250-gallon capacity equipped with a funnel, strainer and cover to prevent entrance into the tank of trash, water and other foreign matter. When the container requires emptying, the Officer in Charge (OIC) will notify the Base Maintenance Department (Telephone 5909). The Base Maintenance Department will dispatch a vehicle to remove the waste oil. In the event of an emergency 55-gallon drums may be used as a temporary expedient storage container for waste oil.
  - b. Waste lubrication grease will be collected, stored in suitable containers and disposed of in accordance with instructions provided by Base Maintenance Department representative. Send request via Chain of Command to the Base Maintenance Officer.
  - c. Oil-saturated soil in the vicinity of oil and petroleum storage areas should be removed to the sanitary landfill and replaced with fresh earth.
  - d. To dispose of contaminated gasoline contact the Base Fire Department (Telephone 3004).
  - e. Disposal of hazardous waste and other hazardous substances such as acids, poisons and solvents through any drainage system to include sinks, wash racks, storm drains and natural drainage systems is specifically prohibited. These products will be segregated and stored in suitable containers and will be disposed of in accordance with instructions provided by Commanding General, Marine Corps Base, Camp Lejeune.
  - f. Petroleum products containers will be disposed of at the sanitary landfill, or recycled, if appropriate, with the exception of 55-gallon drums and durable metal containers which will be disposed of through the Defense Property Disposal Officer, Building 906.
  - g. Personnel changing private owned vehicle (POV) oil on Base will use established Base Special Service facilities and deposit waste oil in one of the authorized collection tanks on Base and the Air Station.
  - h. Oil and gasoline storage containers larger than 550-gallon capacity will be diked to include a drainage line and valve which will be locked. The latter will be operated only by personnel authorized by the Unit Commander.
5. Field operations will comply with the guidance enumerated in the following subparagraphs:
  - a. All tactical refueling systems installed on Base must first be approved by the Base Maintenance Officer.
  - b. Fuel stored in tactical refueling systems will be properly diked, as required by current regulations. As a general rule, the dike must be capable of containing at least the volume of the container stored within it.
  - c. When using fuel tanker vehicles:
    - (1) Hoses, nozzles and connections will be checked frequently for serviceability to avoid leakage of fuel.
    - (2) Refueler operators will stay with the vehicle during refueling operations.
    - (3) Tanker vehicles containing fuel will be parked in such a manner as to avoid the possibility of spilled fuel entering natural or man-made drainage systems.
    - (4) During recirculation operations, nozzles will be secured to the vehicle.
    - (5) All waste petroleum products generated during field exercises will be stored (55-gallon drums, etc.) and disposal instructions obtained from the Director, Natural Resources Division, Base Maintenance Department (451-5003).



88 MAY 1981

OIL AND OTHER HAZARDOUS MATERIAL SPILL CONTINGENCY PLAN

FOR

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA

MARINE CORPS AIR STATION (HELICOPTER), NEW RIVER, JACKSONVILLE, NORTH CAROLINA

MARINE CORPS HELICOPTER OUTLYING FIELD, OAK GROVE, JONES COUNTY, NORTH CAROLINA

PREPARED

OCTOBER 1980

88 MAY 1981

1. Reporting Spills of Oil and Other Hazardous Substances

a. Materials Classification - The following products are examples of oil compounds or hazardous substances which must be reported if spilled on the ground or water in any amount:

Lube Oils	JP-4 & JP-5 Fuels	Paint Thinner	No. 6 Fuel Oil
Gasoline	Hydraulic Fluid	Organic Solvents	
Kerosene	Acids	Cleaning Solutions	
Lube Grease	No. 2 Fuel Oil	Poisonous Chemicals	

b. Reporting Procedures - All spills of oil or hazardous materials shall be reported immediately to the Base Fire Department Phone 3333 (on base) or 451-3333 (off base). The report shall include location (Building Number) of spill, substance spilled and the approximate amount. All spills occurring at Marine Corps Air Station (Helicopter), New River will also be reported to the Station S-4 (455-6068 - 455-6518) during normal working hours and to the Station Officer of the Day after normal working hours (455-6111).

c. Posting of Oil Spill Procedure - Signs shall be posted in every building, tank location and field service location where oil or hazardous materials are used. The sign shall have a yellow background with black lettering indicating the following information:

IN CASE OF AN OIL OR HAZARDOUS MATERIAL SPILL  
CALL BASE FIRE DEPARTMENT  
ON BASE 3333/OFF BASE 451-3333  
NOTIFY YOUR COMMANDER/SUPERVISOR IMMEDIATELY

d. Initial Containment Procedure - Remain in area - - - Do Not Wash Down With Water - - - Keep Personnel Out of the Area - - - Block Runoff with Earth Materials to Prevent Spreading, when possible.

2. Response to Spill

a. Fire Department - Fire Department shall dispatch a regular fire fighting unit to the scene of a reported spill. The Base Fire Chief or his senior representative shall report to the scene as soon as possible. Dispatcher will immediately notify the Base Fire Chief or his senior representative who will perform the following duties:

- (1) Assume the role of On-Scene Coordinator (OSC).
- (2) Take all necessary immediate steps to contain the spill, eliminate any fire hazards and protect all personnel from exposure and request the assistance of the Base Safety Officer, if required (See page 4, Enclosure (2)).
- (3) Notify the Natural Resources and Environmental Affairs Director (Telephone 5003) of the spill location and the nature and quantity of spilled materials.
- (4) Evaluate the spill situation and request necessary logistical support from the Base Maintenance Officer to contain the spill and facilitate the cleanup and recovery of the spilled materials.
- (5) OSC duties shall transfer to the Director, Natural Resources and Environmental Affairs upon his arrival at the scene. (See page 4, Enclosure (2) for Personnel and Public Safety Coordination).

## b. Base Maintenance Officer

- (1) Base Maintenance Officer shall maintain the inventory of materials and equipment as established in Appendix A of enclosure (2).
- (2) Base Maintenance personnel shall respond immediately to the request of the OSC with men and equipment requested.

(a) Direct supervision shall be from the OSC.

(b) Maintenance personnel shall remain at the spill scene until authorized to depart by the OSC.

## c. Natural Resources and Environmental Affairs Division

(1) The Director or his authorized representative shall proceed to the scene and assume the duties of the OSC. The duties shall include the following categories:

(a) Direct all containment and cleanup activities.

(b) Report oil spills that discharge into the inland waters or coastal waters to the following: Base Maintenance Officer; Assistant Chief of Staff, Facilities, Marine Corps Base; Marine Safety Officer, U. S. Coast Guard, Wilmington, North Carolina and the Environmental Regulatory Agencies, as required.

(c) Request U. S. Coast Guard assistance for spills into waters that cannot be contained promptly by joint efforts of the Fire Department and Base Maintenance crews.

(2) The Natural Resources and Environmental Affairs Division Director or his representative shall remain at the scene of the spill until all contaminant is properly contained and the danger of oil contamination of waterways is eliminated.

(3) At the conclusion of all cleanup operations, the official report submitted to the Environmental Protection Agency (EPA), Region IV, shall be prepared in accordance with requirements of Federal Water Pollution Control Act and EPA regulations in effect at the time. The report shall be transmitted to EPA through the directives of the Commanding General.

### 3. Spill Containment and Cleanup

#### a. Small Spills (less than one gallon)

(1) Cause: Gasoline or fuel oil spills at fueling locations occur by overfilling or blow back from the tank receiving the fuel.

(2) Reporting: This type of spill requires reporting to the Office of Natural Resources and Environmental Affairs (Phone 1-919-451-5003). The fuel spill must be promptly cleaned up by the person at the scene.

#### (3) Containment Procedures:

(a) DO NOT FLUSH INTO STORM SEWER OR DRAINAGE DITCH.

(b) Cover entire spill with sand or absorbent material from storage bin or container. Add material as liquid appears in the surface of the sand or absorbent material.

(c) Cleanup contaminated sand or absorbent material with broom and shovel placing it in a container (metal) for disposal or possible reuse. The container shall be labeled "Waste Oil Refuse".

(d) If storage bin of sand or absorbent material is less than one-half full after using, call Base Maintenance Department (3001) to inform them of the location needing additional material.

(e) Reapply a second coat of sand or absorbent material in a very light layer to assure all gasoline or fuel oils have been blotted up. Brush material back and forth over the area and then sweep up completely. This material can be replaced in the fresh storage bin rather than depositing it in the "Waste Oil Refuse" container.

#### b. Spills on Concrete Aprons (more than one gallon)

(1) Reporting: Call Base Fire Department

#### (2) Containment Procedures:

(a) DO NOT FLUSH INTO STORM SEWER OR DRAINAGE DITCH.

(b) The person on-site shall erect a two-to-three inch high sand or earth dam on the concrete or at the edge of the concrete below (downstream) the direction that the spill is flowing. This is the first step in containment.

(c) Apply sand or absorbent materials that are available around the perimeter of the spill until the Fire Department arrives. Keep other personnel away from the area.

(d) Fire Department shall continue abatement methods using equipment available until the Director of Natural Resources and Environmental Affairs Division or his representative arrives to determine further containment and cleanup requirements.

(e) Base Maintenance personnel shall install dams, straw barriers, pumping equipment and other abatement or cleanup equipment as directed by the OSC.

#### c. Spills on Ground (more than one gallon)

(1) Reporting: Call Base Fire Department

#### (2) Containment Procedures:

(a) DO NOT FLUSH INTO STORM SEWER OR DRAINAGE DITCH.

(b) The person on-site shall erect a minimum three-inch high sand or earth dam below (downstream) the direction that the spill is flowing. The dam should be made higher if the liquid pool behind the temporary dam rises to within two inches of the top. A trench or sump may be used in lieu of a dam. This is the first step in containment that must be taken promptly to prevent spreading into surface waters.

(c) Apply sand or absorbent materials that are available around the perimeter of the spill until the Fire Department arrives. Keep other personnel away from the area.

(d) Fire Department shall continue abatement methods using equipment available until the Director of Natural Resources and Environmental Affairs Division or his representative arrives to determine further containment and cleanup requirements.

28 MAY 1981

(e) Base Maintenance personnel shall install dams, straw barriers, absorbents, pumping equipment and other abatement or cleanup equipment as directed by the OSC.

d. Spills Entering Storm Drainage System

(1) Reporting: Call Base Fire Department and emphasize that the liquid has entered a catch basin, manhole, drainage ditch, or any structure (pit) below ground.

(2) Containment Procedures:

(a) DO NOT ADD WATER TO FLUSH OUT STORM SEWER OR STRUCTURE.

(b) The person on-site shall attempt to erect a sand or earth dam around or cover with polyethylene or other plastic materials the manhole or catch basin to prevent further entrance of liquid into the structure. This is the first step in containment that must be taken promptly to minimize the quantity of liquid that will be discharged into surface waters.

(c) The person on-site shall apply sand or absorbent materials that may be available around the perimeter of the spill and at the manhole or catch basin until the Fire Department arrives.

(d) Base Maintenance personnel shall place oil booms across storm drains to prevent further discharge. Public Works Department will develop maps of drainage systems required for siting booms. After spill is contained, cleanup will be initiated. Action may include the following:

1 Inspect downstream manholes for evidence of oil progression toward discharge. If storm system has a very low flow, install straw barrier or absorption dam inside manhole.

2 Where practical, install plug in upstream side of manhole, to contain in the pipe system.

3 If the drainage system has an open ditch, install straw bale dams or absorption dam to collect spilled materials.

4 Isolate streets with contaminated manhole to prevent fires or explosions.

(e) The Director, Natural Resources and Environmental Affairs Division, or his representative shall determine further containment and cleanup requirements after arriving on the scene.

(f) Base Maintenance personnel shall install dams, straw barriers, absorbents, pumping equipment and other abatement and cleanup equipment as directed by the OSC.

e. Spills Entering Surface Waters

(1) Reporting: Call Base Fire Department and emphasize that the liquid was discharged directly into the surface waters.

(2) Containment Procedure:

(a) Person at the site should check the source of discharge to be assured that no further discharge can occur. Close valves, remove hose, or isolate the source from causing any further release of materials.

(b) Do not allow boats or equipment to enter the surface waters where the spill has occurred. If surface type oil absorbents are available, begin spreading this material wherever an oil skim is observed. Do not enter the water to apply this material until the Fire Department arrives.

(c) Fire Department shall continue abatement methods using equipment available until the Director of Natural Resources and Environmental Affairs Division, or his representative arrives to determine further containment and cleanup requirements.

(d) Base Maintenance personnel shall install booms, skimmers, pumps and other abatement or cleanup equipment as directed by the OSC.

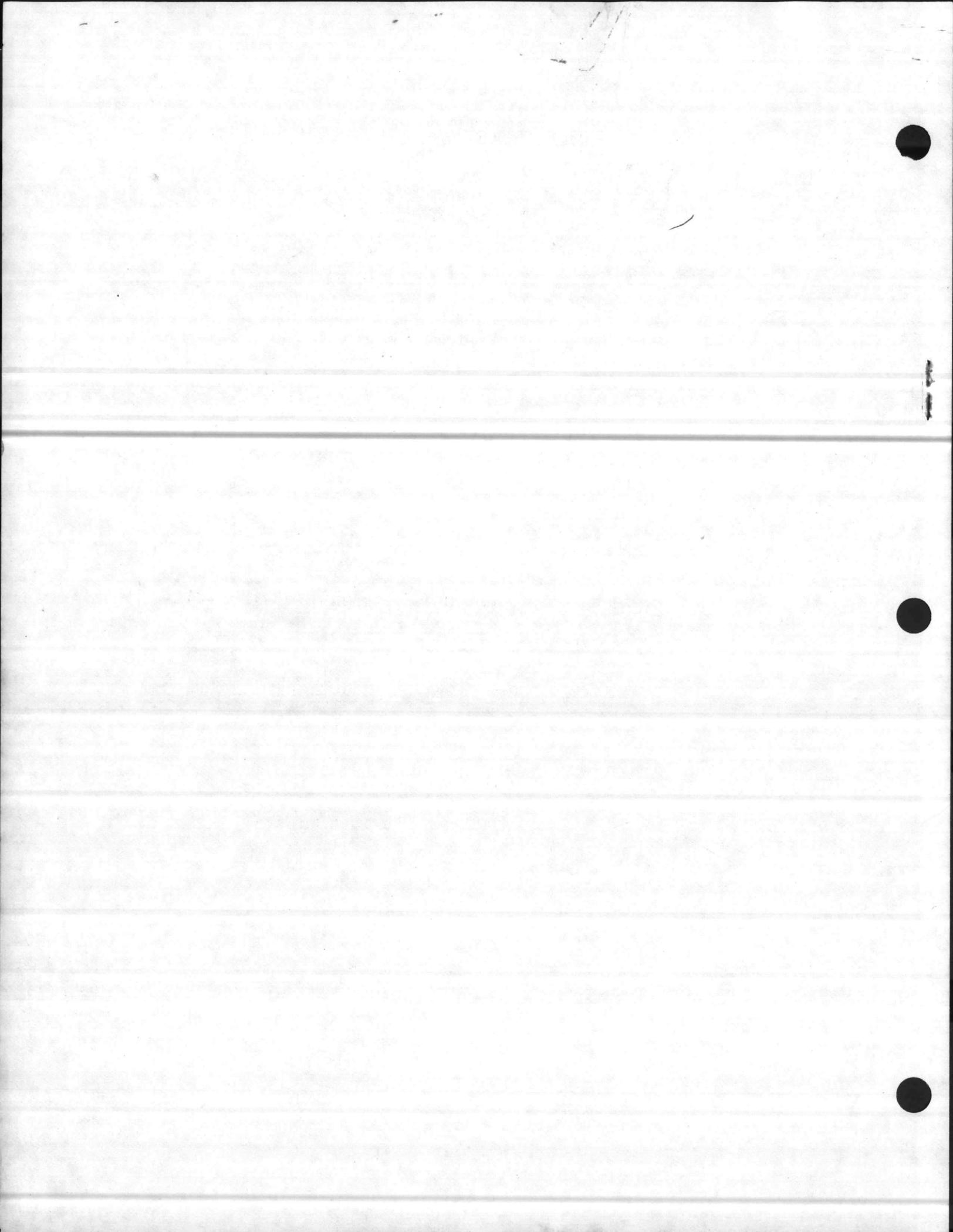
4. Responsibilities for Ensuring Personnel and Public Safety

a. Overall responsibility for ensuring the safety of personnel involved in the containment and cleanup of hazardous material spill is assigned to the Base Fire Chief or his senior representative. The Base Fire Chief representative shall continue to monitor the situation and will provide required standby personnel and equipment. The Base Fire Chief representative will request the assistance of the Base Safety Officer as needed. The Base Fire Chief representative shall keep the OSC informed of any safety considerations affecting the containment and cleanup of the spill. In the event of imminent hazard to personnel involved in the spill cleanup or to the public, Base Fire Chief representative shall take appropriate action. The OSC shall assist the Base Fire Chief representative implement safety procedures required.

b. Base Safety shall dispatch a safety representative to the spill scene upon request from the Base Fire Chief representative. The Base Safety representative will remain at the scene until advised by the Base Fire Chief representative that assistance is no longer required. Base Safety representative will monitor all activity at or near the spill and make appropriate recommendations to the Base Fire Chief representative.

MATERIALS AND EQUIPMENT FOR OIL SPILL  
CONTAINMENT AND COUNTERMEASURE

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>
1.	Gasoline engine driven (portable) trailer mounted diaphragm pump with sectional suction and discharge hose - minimum capacity 25 gallons per minute.	2
2.	Sectional aluminum oil boom	
3.	Inflatable oil barrier, Whittaker Expandi self-inflating	300 L. F.
4.	Collapsible bag for field filling of collected oil-250 gallon capacity	2
5.	Oil skimmer (portable) type for water floating oil pick-up	1
6.	Baled hay or straw with wire or nylon baling (located at strategic areas)	200 Bales
7.	Steel fence stakes (6 feet long)	50 each
8.	Woven wire mesh (chicken wire) 3ft. width 4ft. width	200 L.F. 100 L.F.
9.	Sledge hammer - 10 lb. 5 lb. 2½ lb.	3 5 5
10.	Shovels - Long handle round point Long handle flat blade Short handle round point Short handle flat point	5 5 5 5
11.	Oil Absorbent Compound - for water spill clean up	2000 lbs.
12.	Oil Absorbent Compound for ground spill clean up - Randustrial P-218 Oil Absorbent (55-gallon drum)	25 drums
13.	Nylon rope - ½" diameter ¾" diameter 3/4" diameter	200 L.F. 400 L.F. 400 L.F.
14.	Oil Sorbent Material - 3M, Conwed or Grefco	500 lb.



ROUTINE

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TO RUEBDOO/CG SECOND MARDIV  
RUCLEFCJ/CG SECOND MAW  
RUEBDOR/CG SECOND FSSG  
RULYOWA/CG FOURTH MAR  
RUCIPFT/CDR101STARNOIV (AIRASLT) FT CAMPBELL KY  
INFO RUEBDOA/CG MCR CAMP LEJEUNE NC

BT

UNCLAS //NOA000//

SUBJ: ENVIRONMENTAL PROTECTION MEASURES DURING SOLID SHIELD 83

A. II MAF OPORD 2083 (SOLID SHIELD 83)

B. CG MCR CAMP LEJEUNE NC 112015Z APR 83 PASEP

1. IN ADDITION TO GUIDANCE CONTAINED REF A REQ ADHERE TO MEASURES OUTLINED REF B WHICH ARE REITERATED HEREIN:

REFERENCE - CAMP LEJEUNE MARINE CORPS BASE ORDERS:

A. RO 11015.6

B. RO 11090.1B

C. RO 6240.5

TEXT. A. GENERAL.

PAGE 02 RHCJSG G6555 UNCLAS

1. USE EXISTING MAIN ROADS AND TRAILS TO THE MAXIMUM EXTENT TACTICALLY FEASIBLE TO CONSIDERABLY REDUCE VEHICULAR DAMAGE TO WETLANDS AND WILDLIFE HABITAT. VEHICULAR TRAFFIC OVER THE FRONTAL DUNES OF ONSLOW BEACH IS PROHIBITED.

2. THE HABITAT LOCATIONS OF THE REDCOCKADED WOODPECKER, AN ENDANGERED SPECIES, ARE SPECIFIED IN REF A. UNITS ESTABLISHING CP'S AND BIVOUAC AREAS WITHIN THE BUFFER ZONES WILL OBSERVE THE AUTHORIZED PROCEDURES OF REF A.

B. SPILL PREVENTION, CONTAINMENT AND CLEAN-UP

1. DISCHARGE OF OILS OR OTHER HAZARDOUS MATERIALS ON OR INTO THE GROUNDS AND WATERS IS PROHIBITED PER REF B.

2. IN THE EVENT OF A SPILL (MORE THAN ONE GALLON):

A. CALL BASE FIRE DEPT, EXT 3333 ON BASE OR 451-3333 FROM OFF-BASE.

B. PERSONNEL ON SITE SHALL ERECT A SAND OR EARTH BERM TO CONTAIN SPILLS ON THE GROUND.

C. KEEP UNAUTHORIZED PERSONNEL OUT OF THE AREA.

D. PROVIDE PERSONNEL AND EQUIPMENT SUPPORT FOR SPILL CONTAINMENT AND CLEAN-UP AS REQUESTED BY BASE SPILL RESPONSE ON-SCENE COORDINATOR.

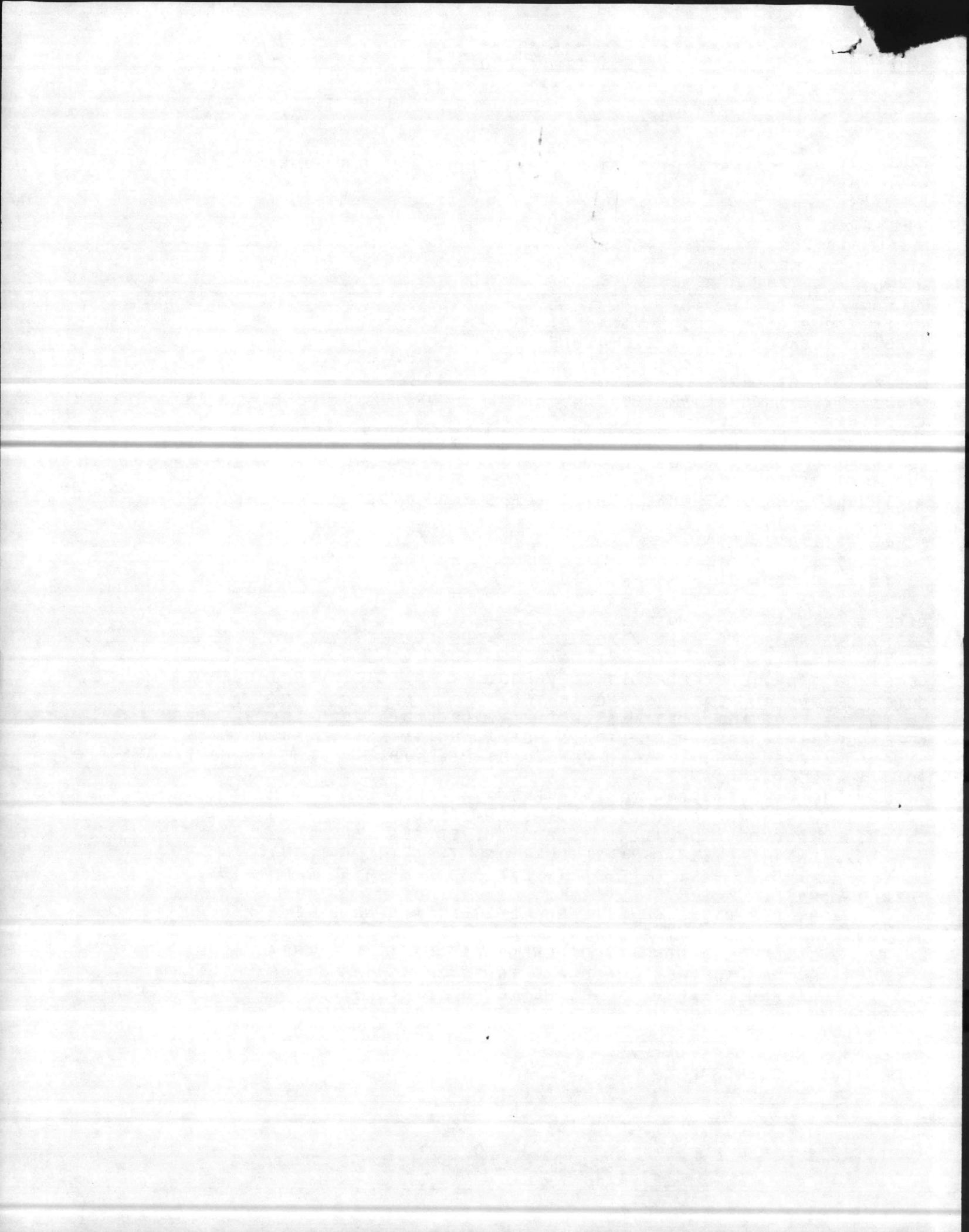
PAGE 03 RHCJSG G6555 UNCLAS

C. WASTE DISPOSAL

ROUTINE

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\* U N C L A S S I F I E D \*  
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383 APR 83



1. BURYING OF REFUSE AND DERRIS IN THE FIELD IS PROHIBITED. UNITS WILL COLLECT SOLID WASTE AND TRANSPORT TO THE BASE LANDFILL.

2. FIELD MESS WASTE WATER WILL BE COLLECTED IN A TANK B2130 TANK, FABRIC. 3,000 GAL. CALL EXT. 3001/3002 FOR PUMPING OF TANKS BY BASE MAINTENANCE.

3. FIELD SHOWER WASTE WATER WILL REQUIRE SOAKAGE PIT. SITE APPROVAL OF SHOWER FACILITIES IS REQUIRED PRIOR TO THEIR BEING PLACED IN OPERATION. CALL BASE ENVIRONMENTAL ENGINEER, EXT. 3034/2544 FOR SITE APPROVAL.

D. SANITARY WASTE WILL BE DISPOSED OF VIA THE USE OF PORT-A-JOHN'S THROUGHOUT THE DURATION OF THE EXERCISE. FOR SERVICING, CALL BASE LOGISTICS, EXT. 5962/5520.

E. FIRE PREVENTION AND FIRE FIGHTING

1. THE BURNING OF DERRIS IN THE FIELD IS STRICTLY PROHIBITED.

2. REPORT ALL FIRES TO THE BASE FIRE DEPT AT EXT. 3333.

ON BASE OR 451-3333 FROM OFF-BASE.

F. FIELD VEHICLE MAINTENANCE

1. ALL WASTE POL PRODUCTS WILL BE STORED IN SUITABLE CONTAINERS AND DISPOSAL INSTRUCTIONS WILL BE OBTAINED FROM THE UNIT

PAGE 04 RHCJSG 66555 UNCLAS

S-4.

2. USE DRIP PANS AND GROUND CLOTHS DURING OIL CHANGING AND FUELING OF EQUIPMENT.

3. CLEANING SOLVENTS AND OTHER HAZARDOUS MATERIALS WILL BE STORED IN SUITABLE CONTAINERS UNTIL THE END OF THE EXERCISE. DISPOSAL OF THESE MATERIALS WILL COMPLY WITH REF C.

2. FOR FURTHER INFORMATION OR CLARIFICATION, MCB CLNC POC IS MR. BOB ALEXANDR, AV: 484-2544.

BT

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