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REMARKS

Please perform a final review of attached spec.

DO NOT use this form as a RECORD of approvals, concurrences, disposals, clearances, and similar actions

FROM: (Name, org. symbol, Agency/Post)

Room No.—Bldg.

J. Gurganus, FSC

Phone No.

St June 27

1872

Please perform a
final review of attached
docs.

J. Bergmann 720

NOTICE:
SOLICITATION

N62470-85-B-6332

Bids to be opened at 2:00 p.m.
NAVFAC

SPECIFICATION

No. 05-85-6332

At the Office of the Officer in Charge
of Facilities Support Contracts, Bldg 1005
Marine Corps Base
Camp Lejeune, North Carolina 28542
Appropriation: O&MMC

MAINTENANCE AND TESTING OF ELECTRICAL DISTRIBUTION SYSTEM

at the

MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

THE NAVAL HOSPITAL
CAMP LEJEUNE, NORTH CAROLINA

and

THE MARINE CORPS AIR STATION
NEW RIVER, NORTH CAROLINA

CONTRACT N62470-85-C-6332

DESIGN BY:

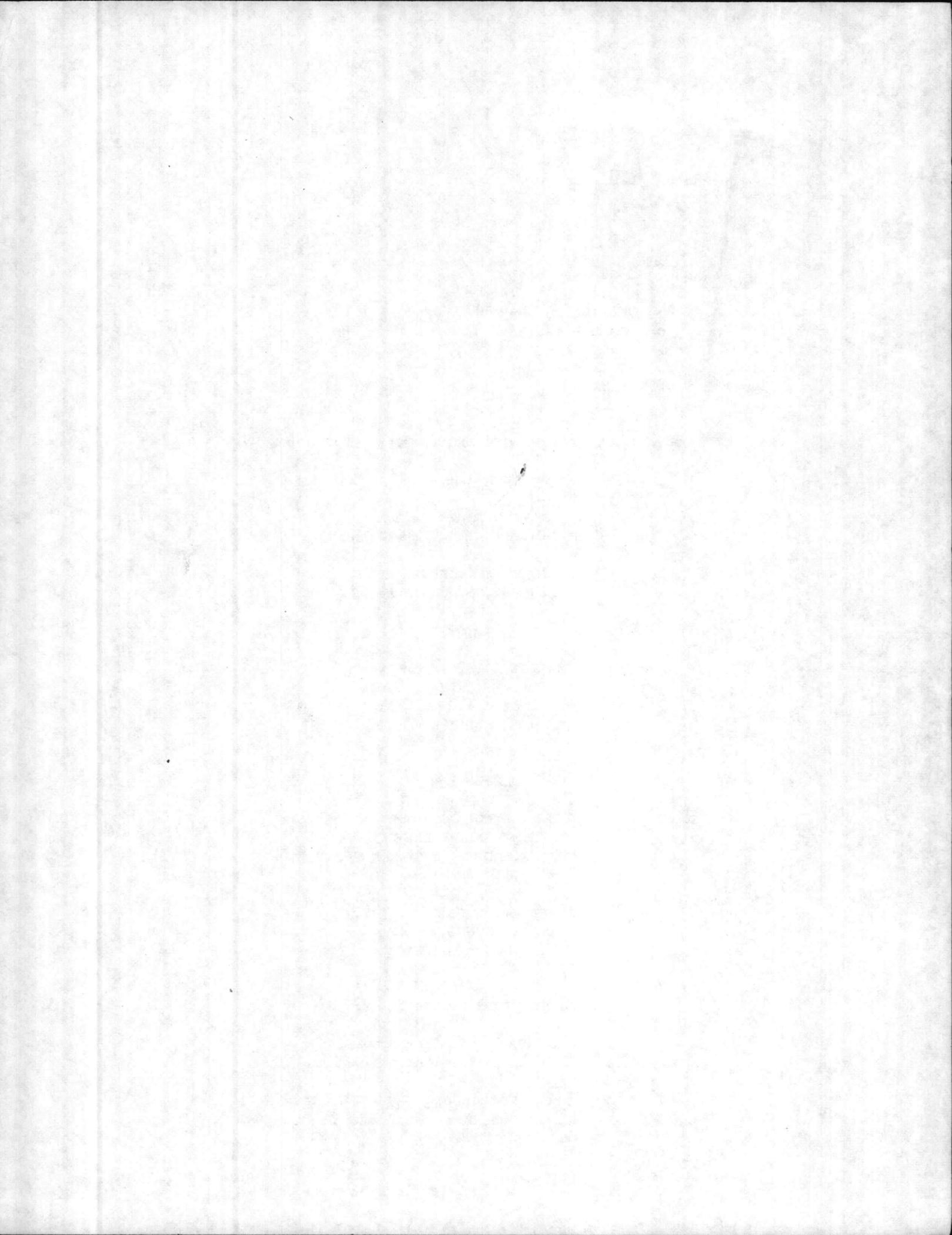
PUBLIC WORKS DEPARTMENT
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA 28542

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T. L. Huguelet, Commander, CEC, U.S. Navy
for Commander, Naval Facilities Engineering Command

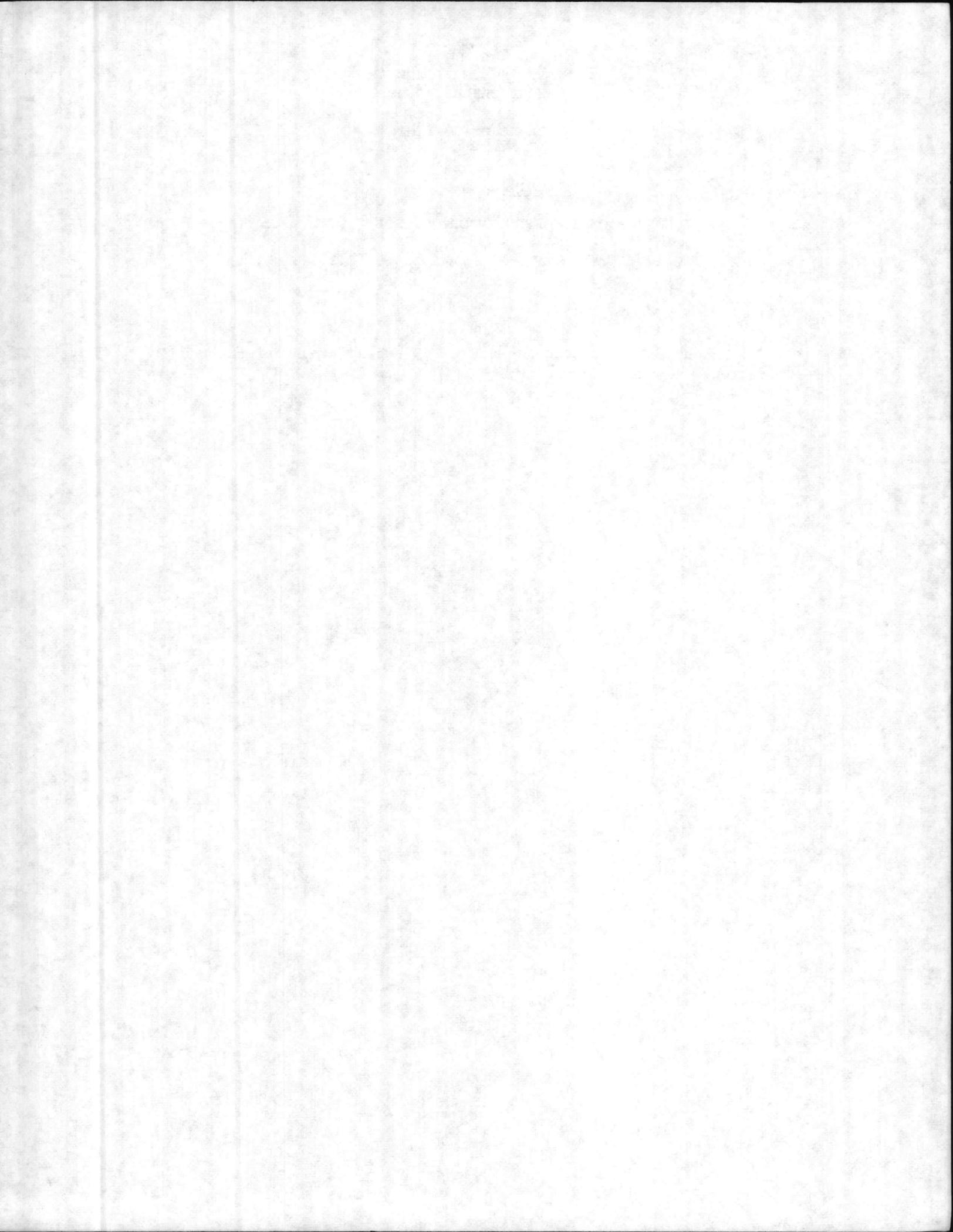


PART 1 - THE SCHEDULE
SCHEDULE A: FORMS

TABLE OF CONTENTS

<u>FORMS</u>	<u>FORM NAME</u>	<u>PAGE NO.</u>
DD1707	INFORMATION TO OFFERORS OR QUOTERS.....	****
SF 33	SOLICITATION, OFFER AND AWARD.....	****

****NOTE: These will be provided separately, not as a part of the bound specification.



PART 1 - THE SCHEDULE
SECTION B - SUPPLIES/SERVICES AND PRICES
TABLE OF CONTENTS

<u>CLAUSE NO.</u>	<u>CLAUSE NAME</u>	<u>PAGE NO.</u>
B.1	General Intention.....	B-1
B.2	Basis for Award.....	B-1
B.3	Contract Line Items.....	B-1
B.4	Schedule of Deductions.....	B-5

PART 1 - THE SCHEDULE

SECTION B: SUPPLIES OR SERVICES AND PRICE/COSTS

B.1 GENERAL INTENTION

It is the intention of this solicitation to obtain inspection, testing, calibration, adjustments, maintenance, and minor repair of the existing medium-voltage 15KV class electrical distribution system at the Marine Corps Base and Marine Corps Air Station, and medium- and low-voltage electrical distribution and utilization systems at the Naval Hospital by means of the Firm Fixed Price Lump Sum portion of this contract. The replacement of worn or defective parts or equipment shall be obtained by means of the Indefinite Quantity portion of this contract.

B.2 BASIS FOR AWARD

The low bidder for purposes of award shall be the conforming, responsive, responsible bidder offering the lowest total price for Contract Line Items 0001 and 0002. Bids are solicited on an "all or none" basis and provision 52.214-10 (CONTRACT AWARD - SEALED BIDDING (APR 1985)) in Section L is hereby modified. Failure to submit bids for all items and quantities listed shall be cause for rejection of the bid.

B.3 CONTRACT LINE ITEMS

a. Bidders shall enter unit prices and amounts for contract line items and subline items in the schedules that follow.

b. In the event there is a difference between a unit price and the extended total amount, the unit price will be held to be the intended bid and the total recomputed accordingly. If the bidder provides a total amount for a contract item but fails to enter the unit price, the amount divided by the specified quantity will be held to be the intended unit price.

c. The Firm Fixed Price Portion of the contract is supported by a Schedule of Deductions which is the last clause in this section. THE SCHEDULE OF DEDUCTIONS SHOULD NOT BE SUBMITTED UNTIL AFTER CONTRACT AWARD. The successful bidder shall complete The Schedule of Deductions and submit it to the Contracting Officer within 15 days after award. The Schedule of Deductions and the Schedule of Indefinite Quantity Work will be used as the basis of deductions pursuant to the Consequences of Contractor Failure to Perform Required Services clause in Section E.

FIRM FIXED PRICE LUMP SUM WORK

ITEM NO	TOTAL AMOUNT
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0001 FIRM FIXED PRICE LUMP SUM WORK: (Medium-Voltage Electrical Distribution System at Marine Corps Base and Marine Corps Air Station and Medium- and Low-Voltage Electrical Distribution and Utilization Systems at Naval Hospital)

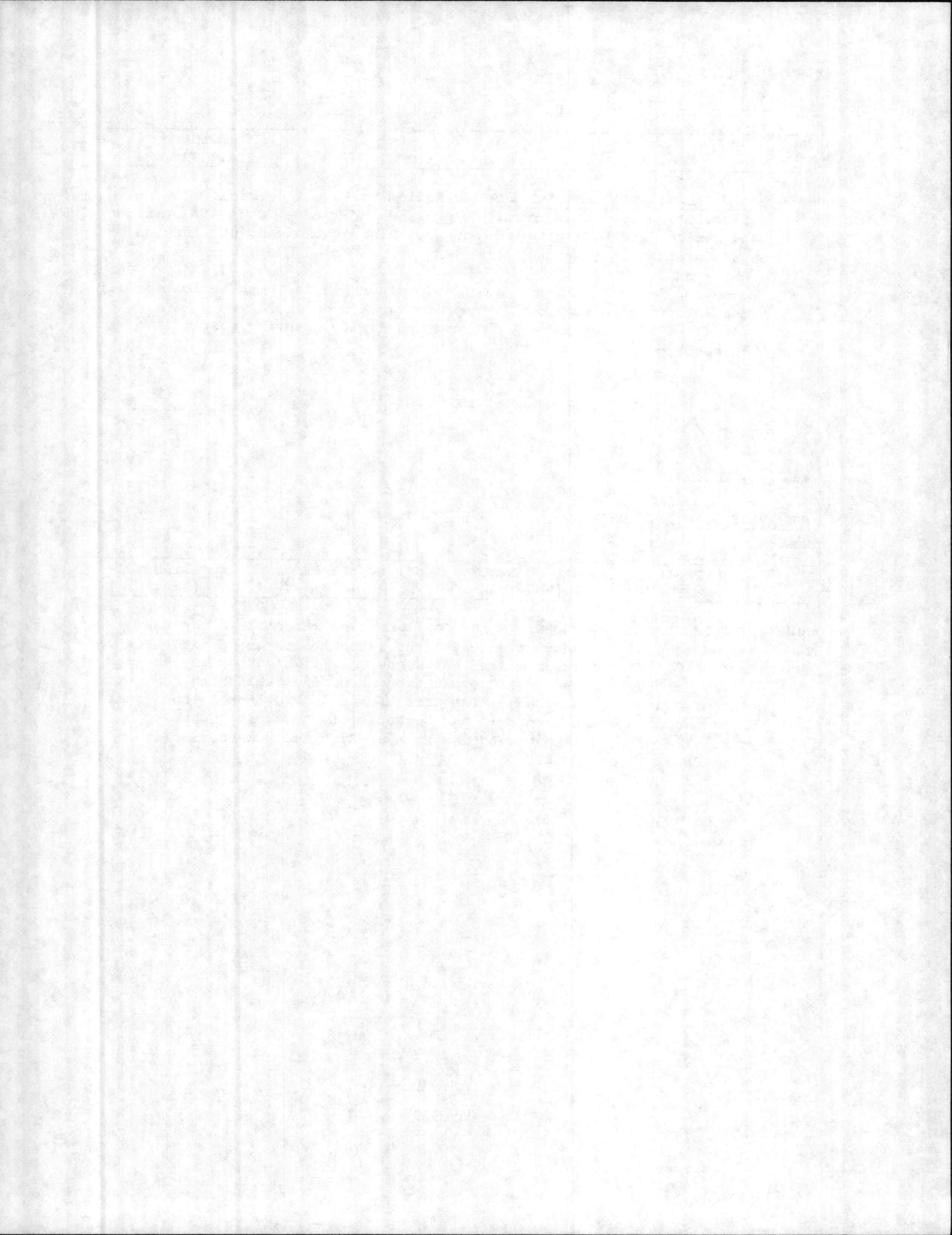
Price for labor and material to perform work in the Base Period for all work specified in Section C except for work specifically identified as being included in the Indefinite Quantity portions of the contract.

TOTAL PRICE FOR CONTRACT LINE ITEM 0001 \$ _____

INDEFINITE QUANTITY WORK
SCHEDULE

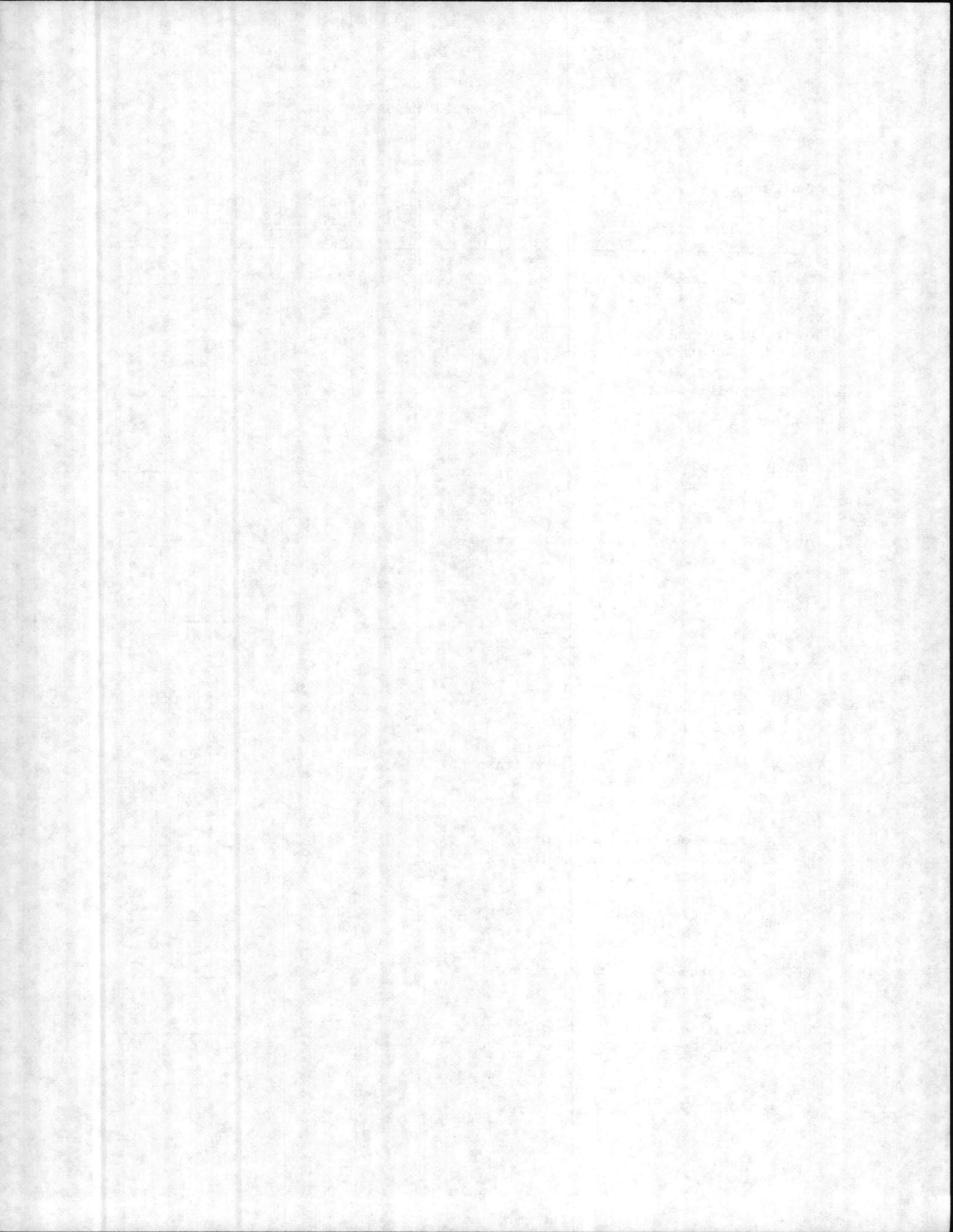
ITEM NO.	SUPPLIES/ SERVICES	ANNUAL QUANTITY (A)	UNIT	UNIT PRICE (B)	TOTAL AMOUNT (AxB)
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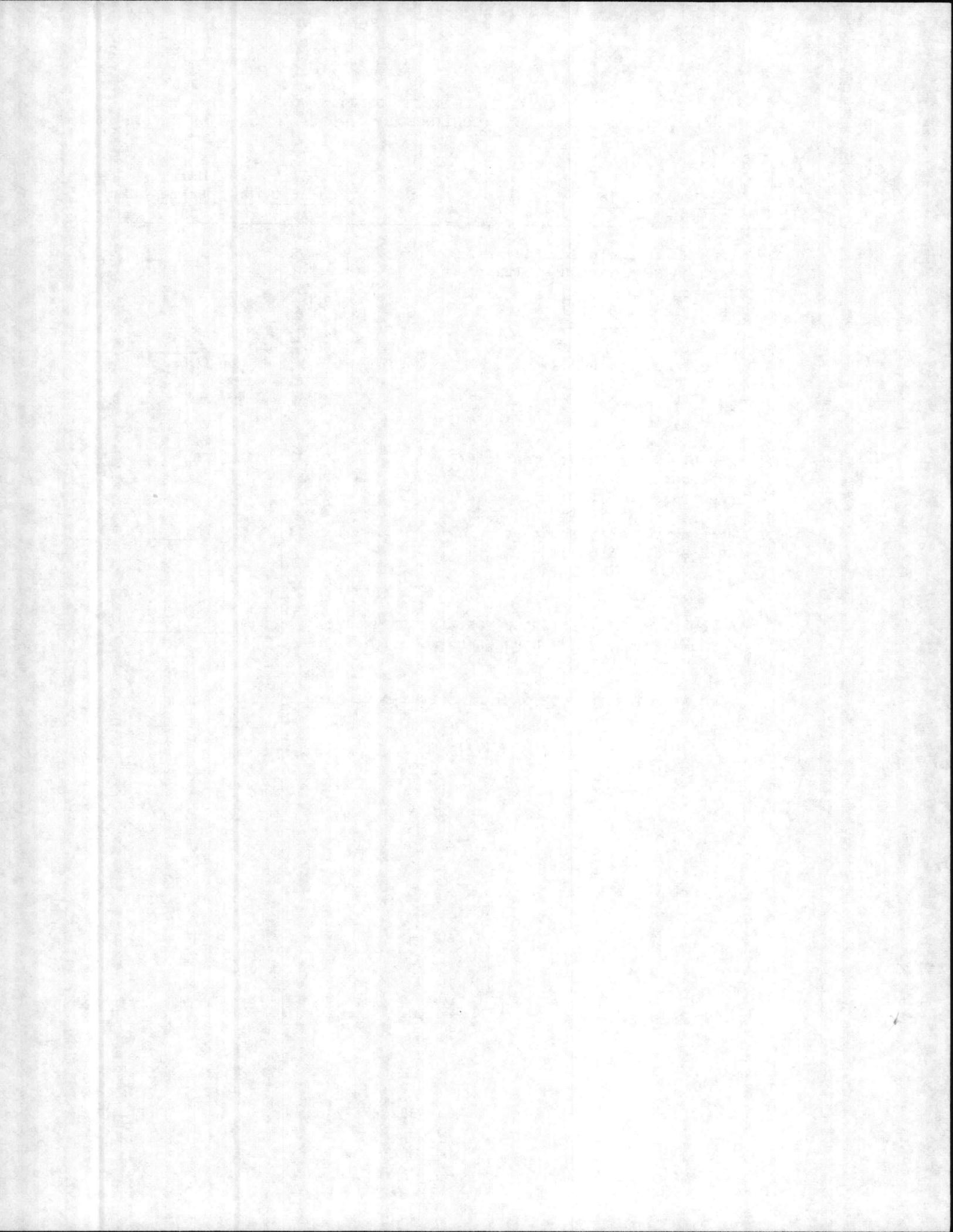
0002 INDEFINITE QUANTITY WORK: Price for labor and material in the Base Period to perform the unit Priced Tasks listed below as specified in Section C. The quantities listed below are realistic estimates provided solely for the purpose of bid evaluation and for establishing the penal sums of bonds (if required). The price for this bid item is the total of the subline items listed in the Schedule of Indefinite Quantity Work. The price for Contract Line Item 0002 is the sum for Subline Items 0002A through 0002S.



SCHEDULE OF INDEFINITE QUANTITY WORK

Subline Item No.	Supplies/Services (Section J-C6a)	Annual Quantity (A)	Unit	Unit Price (B)	Amount (AxB)
0002A	Insulation Oil (Per Para. C.9)	3000	GAL	\$ _____	\$ _____
0002B	15KV Bushing (Per Para. C.5,6,7,8)	2	EA	\$ _____	\$ _____
0002C	Medium-Voltage Breaker Closing Coil (Per Para. C.5,6,7)	2	EA	\$ _____	\$ _____
0002D	Movable & Stationary Contacts/Medium-Voltage Breaker (Per Para. C.5,6,7)	9	SET	\$ _____	\$ _____
0002E	Limit Switch/Medium-Voltage Breaker Control (Per Para. C.5,6,7)	2	EA	\$ _____	\$ _____
0002F	Moveable Contact/Protective Induction Relay (Per Para. C.5,6,7)	2	EA	\$ _____	\$ _____
0002G	Reclosing Relay Coil Medium-Voltage Breaker (Per Para. C.5,6,7)	1	EA	\$ _____	\$ _____
0002H	Target & Seal-In Relay within the Protective Relay (Per Para. C.5,6,7)	3	EA	\$ _____	\$ _____
0002J	Step-Position Indicator including Linkage/Regulator (Per Para. C.5,6,7,8)	2	EA	\$ _____	\$ _____
0002K	Operation Counter (Per Para. C.5,6,7)	2	EA	\$ _____	\$ _____
0002L	Closing Logic Card/Recloser (Per Para. C.5,6,7)	2	EA	\$ _____	\$ _____
0002M	Opening Logic Card/Recloser (Per Para. C.5,6,7)	2	EA	\$ _____	\$ _____





B.4 SCHEDULE OF DEDUCTIONS

a. Within 15 days after contract award, the successful Contractor shall provide an acceptable Schedule of Deductions for the initial term of the contract. No work may commence until such Schedule of Deductions is approved by the Contracting Officer. The total of the Schedule of Deductions must equal the amount entered for Contract Line Item 0001. Schedule of Deductions for the option years which include any labor adjustment granted shall be revised within 15 days of notice to extend the contract. If this contract is modified, the contractor shall revise the Schedule of Deductions within 15 days of the agreement to modify the contract. Prices shown in the Schedule of Deductions will be utilized in conjunction with the "CONSEQUENCES OF THE CONTRACTOR'S FAILURE TO PERFORM REQUIRED SERVICES" clause, Section E, in making payment deductions for non-performance or unsatisfactory performance. Unbalancing in the Schedule of Deductions submitted shall be cause for withholding approval and requiring resubmittal of a balanced schedule, and may be grounds for TERMINATION FOR DEFAULT. The Government reserves the right to unilaterally establish a Schedule of Deductions in the event the successful contractor presents a Schedule of Deductions which is unbalanced or materially deficient. The approved Schedule of Deductions shall be a part of the contract. DO NOT SUBMIT THE SCHEDULE OF DEDUCTIONS WITH BID.

b. The Government's estimate of the value of work will be based on the Schedule of Deductions for the fixed-price lump sum portion of the contract and the Schedule of Indefinite Quantity Work for the indefinite quantity portion of the contract in all instances except the following: for Partially performed firm-fixed price work items, the Engineered Performance Standards (EPS) manuals (See Attachment J-B1) or, if not applicable, other estimating sources will be utilized to estimate the workhour value of the unperformed portion of the work. For deductions of partially performed work, the Government may estimate the contractor's cost based on wage rates extracted from attached wage determination, locally determined rate for Contractor's overhead and profit, and employees fringe benefits times the estimated manhours, plus material costs if applicable. DO NOT SUBMIT SCHEDULE OF DEDUCTIONS WITH BID.

SCHEDULE OF DEDUCTIONS

MEDIUM VOLTAGE(MCB and MCAS)

Subline		Annual	Unit	Unit	Amount
Item		Quantity	Unit	Price	
No.	Supplies/Services	(A)	(B)	(B)	(AxB)
	(Section J-C6a)				
0001A	Medium-Voltage Breaker (Per Para. C.5,6,7,8,9)	38	EA	\$ _____	\$ _____
0001B	Recloser (Three-Phase) (Per Para. C.5,6,7,8,9)	7	EA	\$ _____	\$ _____

SCHEDULE OF DEDUCTIONS

MEDIUM VOLTAGE

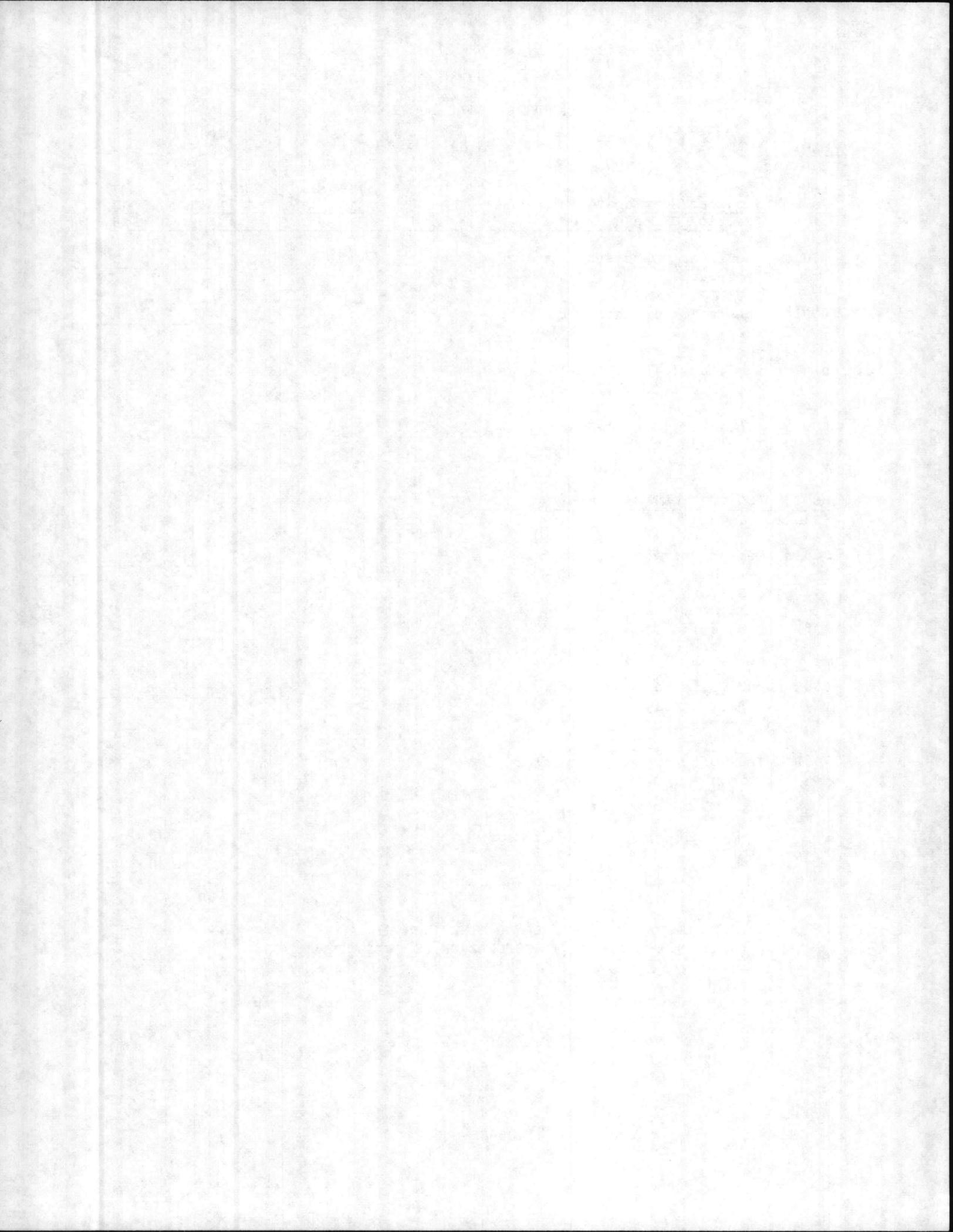
Subline

Item No.	Supplies/Services (Section J-C6a)	Annual Quantity (A)	Unit Price (B)	Amount (AxB)
0001C	Regulator (Three-Phase) (Per Para. C.5,6,7,8,9)	10	EA \$ _____	\$ _____
0001D	Substation Transformer (Per Para. C.5,6,7,8,9)	6	EA \$ _____	\$ _____
0001E	Recloser (Single-Phase) (Per Para. C.5,6,7,8,9)	9	EA \$ _____	\$ _____
0001F	Regulator (Single-Phase) (Per Para. C.5,6,7,8,9)	2	EA \$ _____	\$ _____

MEDIUM AND LOW VOLTAGE (Naval Hospital)
(Section J-C6b)

0001G	Medium-Voltage Interrupter Switches (Per Para. C.5,6,7)	8	EA \$ _____	\$ _____
0001H	Substation Transformers (Per Para. C.5,6,7,8,9)	4	EA \$ _____	\$ _____
0001J	600 Volt Drawout Power Circuit Breakers (Per Para. C.5,6,7)	59	EA \$ _____	\$ _____
0001K	480 Volt Automatic Transfer Switches (Per Para. C.5,6,7)	14	EA \$ _____	\$ _____

TOTAL CONTRACTING PRICE FOR LINE ITEM 0001
(0001A through 0001K) SCHEDULE OF DEDUCTIONS \$ _____

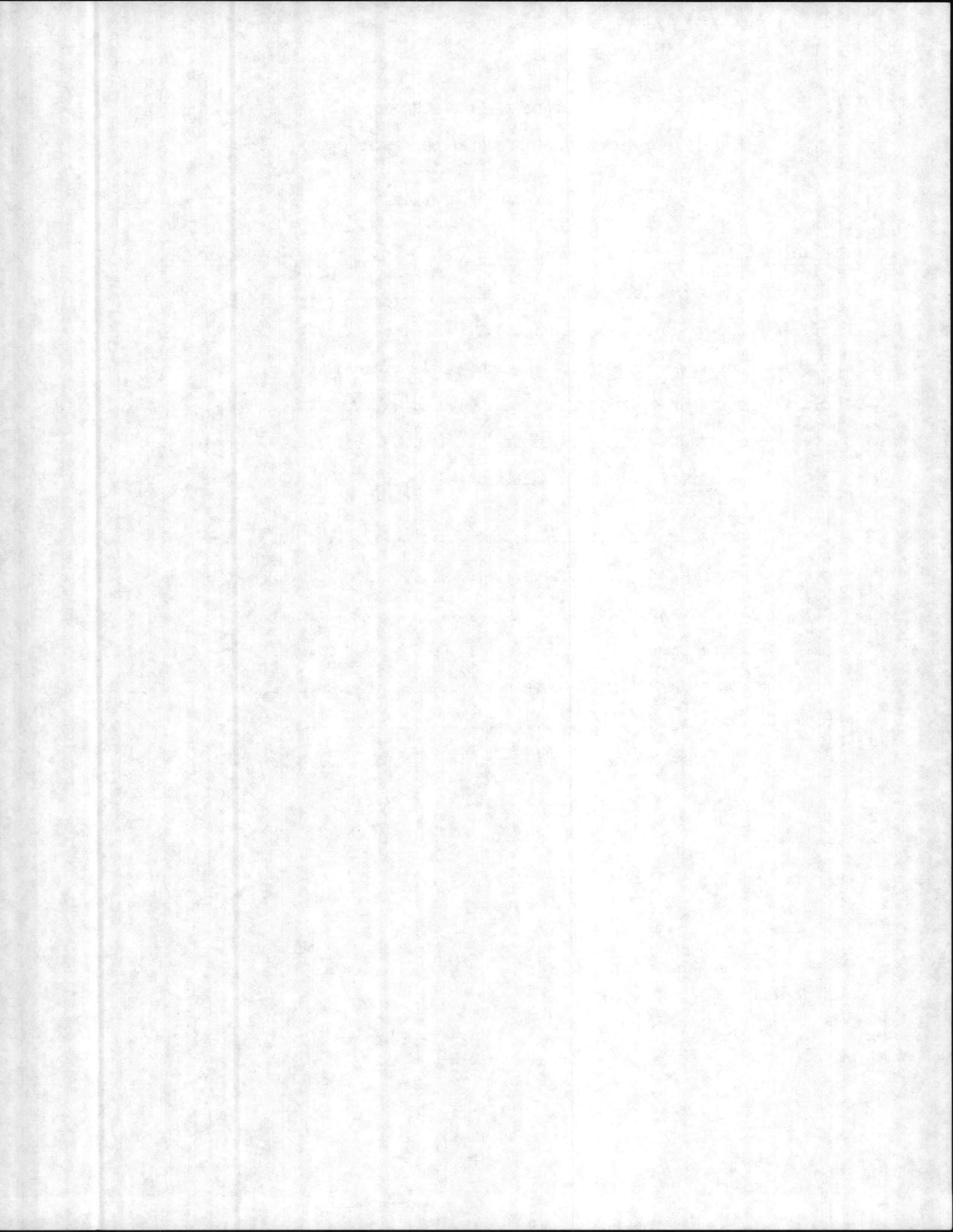


PART I - THE SCHEDULE

SECTION C: DESCRIPTION/SPECIFICATION

TABLE OF CONTENTS

<u>CLAUSE NO.</u>	<u>CLAUSE NAME</u>	<u>PAGE NO.</u>
C.1	GENERAL REQUIREMENTS	C-1
C.2	DEFINITIONS - TECHNICAL.....	C-1
C.3	GOVERNMENT FURNISHED PROPERTY AND SERVICES	C-2
C.4	CONTRACTOR FURNISHED ITEMS	C-2
C.5	TESTING REQUIREMENTS.....	C-3
C.6	CLEANING, INSPECTING, AND ADJUSTMENT..... REQUIREMENTS	C-4
C.7	REPLACEMENT PARTS	C-5
C.8	GASKETS.....	C-5
C.9	INSULATION OIL.....	C-5
C.10	ACCREDITATION.....	C-6
C.11	CONTRACTOR QUALITY CONTROL (QC).....	C-7
C.12	REPORTS.....	C-7
C.13	DRAWINGS ACCOMPANYING SPECIFICATION.....	C-8



PART I - THE SCHEDULE

SECTION C: DESCRIPTION/SPECIFICATION

C.1 GENERAL REQUIREMENTS

The Contractor shall provide all labor, supervision, tools, materials, equipment, and transportation necessary to inspect, test, calibrate, maintain, and repair the medium-voltage distribution system at Marine Corps Base and Marine Corps Air Station and the medium- and low-voltage distribution systems and low-voltage electrical utilization system at Naval Hospital, Camp Lejeune.

C.2 DEFINITIONS - TECHNICAL

a. Regular Working Hours. The Government regular working hours are from 0800 hours to 1600 hours Monday through Friday, except (a) Federal holidays and (b) other days specifically designated by the Contracting Officer.

b. Quality Assurance (QA). A method used by the Government to measure the quality of purchased goods and/or services received.

c. Quality Control (QC). A method used by the Contractor to control quality of goods and/or services provided.

d. Work Authorization (WA). A work authorization is a document providing authorization to the Contractor to accomplish a specific occurrence of Indefinite Quantity work against delivery orders.

e. Work Schedules. A work schedule is a written document submitted monthly and annually to the Contracting Officer for approval which indicates when the Contractor intends to accomplish a particular portion of the work which will require coordination with the Contracting Officer for facility use, access and task verification.

f. Maintenance. The day-to-day, periodic, scheduled and unscheduled work required to preserve or restore a facility or equipment to a condition that it can be effectively utilized for its designed purpose. It includes work to prevent damage or the deterioration of a facility that otherwise would be more costly to restore or require replacement if not attended.

g. Repair. The restoration of a facility or equipment to a condition that allows it to be used for its designed purpose. Repair may require overhaul, reprocessing, or replacing parts or materials that have deteriorated because of use or time.

h. Preventive Maintenance. Preventive maintenance is recurring routine service work at pre-schedule intervals, and includes cleaning, lubricating, inspection, replacement of expendable parts, adjustments, minor corrections and similar work, that can be identified by work description and frequency.

i. Provided. Provided is defined to mean in place, furnished and installed, by the Contractor and ready for use.

j. Where "as shown", "as indicated", "as detailed" or words of similar import are used, it shall be understood that reference is made to the facility's original construction documents (Drawings and Specifications), their amendments and change orders, unless stated otherwise.

k. Where "as directed", "as permitted", "approval", "acceptance" or words of similar import are used, it shall be understood that direction, requirement, permission, approval or acceptance of the Contracting Officer is intended unless stated otherwise.

l. Delivery Order (DO). A Delivery order is a document (DD Form 1155) issued to the Contractor containing the appropriation data and order information for specific items of Indefinite Quantity Work as indicated on the Schedule of Indefinite Quantity Work, bid item 0002.

m. Inspect/Test. The visual, mechanical checking, and electrical testing of the condition of facilities and equipment performed on a regularly scheduled basis, to determine the extent of the maintenance and repair work required and to ensure the proper operation of the systems.

n. Annually (AN). Work shall be performed once a year.

C.3 GOVERNMENT FURNISHED PROPERTY AND SERVICES

a. GOVERNMENT FURNISHED FACILITIES. None.

b. GOVERNMENT FURNISHED MATERIAL. None.

c. AVAILABILITY OF UTILITIES. The Government will furnish water and electric current when available at existing outlets as may be required for the work to be performed under the contract at no cost to the Contractor. Information concerning the location of existing outlets may be secured from the Contracting Officer. The Contractor shall provide and maintain, at his expense, the necessary service lines from existing Government outlets to the site of work.

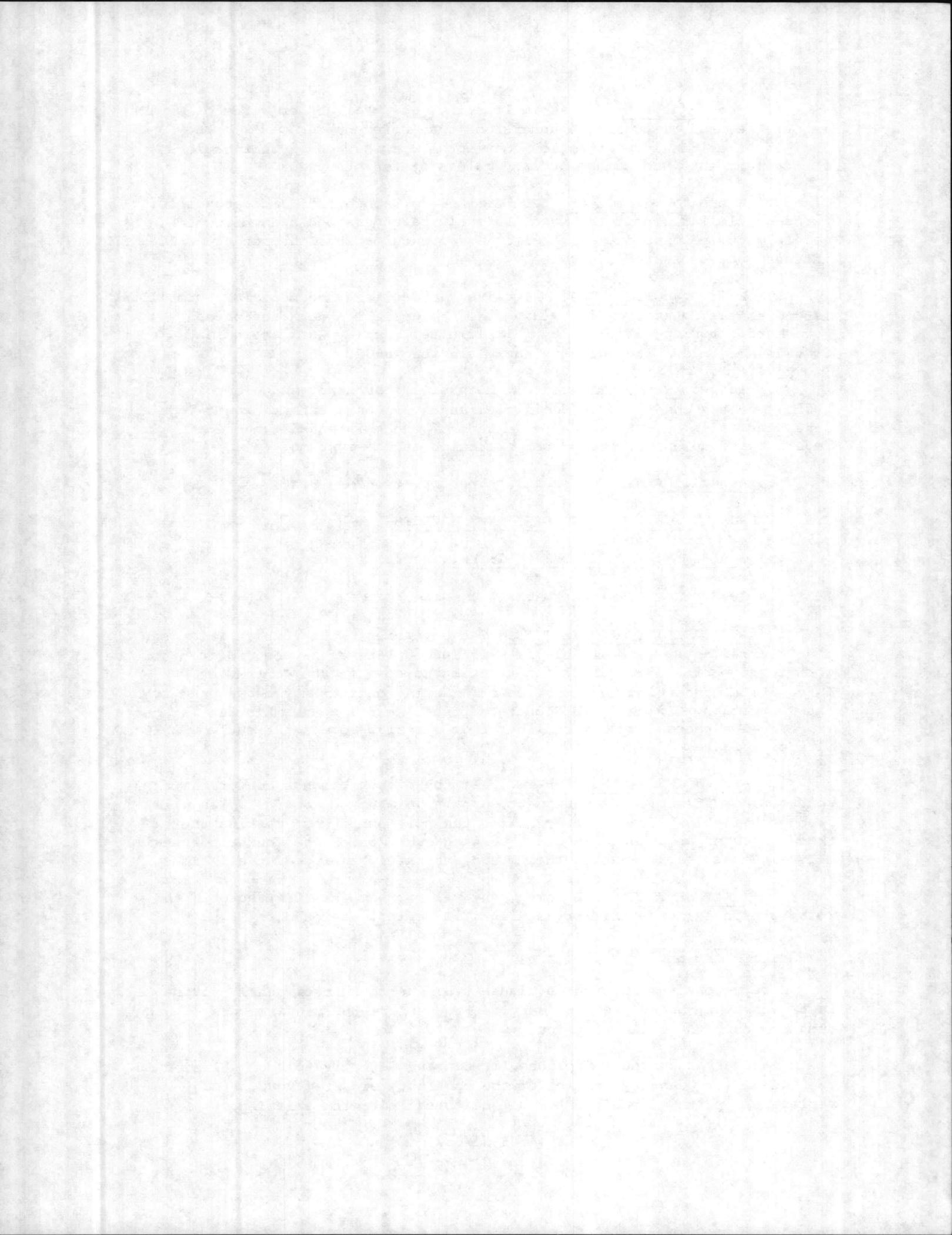
d. USE OF GOVERNMENT PROPERTY. At the preperformance conference the Contracting Officer shall designate certain unimproved area(s) which will become available to the Contractor for the sole purpose of parking their trailer(s) and/or other electrical testing equipment. The Contractor shall maintain these areas keeping them clean and safely equipped at all times.

e. RELAY SETTING. The Government will furnish the Contractor with relay settings as required or setting will be left as found.

C.4 CONTRACTOR FURNISHED ITEMS

Except for items listed in clause C.3, the contractor shall provide all test equipment, materials, and services to perform the requirements of the Lump Sum portion of the contract.

The Contractor shall replace all worn and defective parts as listed in the Indefinite Quantity portion of the contract, Bid Item 0002. All replacement parts or equipment shall be compatible with existing.



C.5 TESTING REQUIREMENTS

a. All assemblies and components of equipment listed in Section J, Attachment J-C6a and J-C6b shall be tested and inspected in accordance with the Electrical Maintenance Tests that have been developed by the National Electrical Testing Association, Inc. (NETA, Copyright 1981) unless otherwise specified herein. Delete the requirement by NETA of Infrared Scanning of electrical equipment. All test values shall be recorded on forms designated in the appendix.

b. Insulation Testing. - The results of insulation testing shall be within the ranges there indicated with the following exceptions for minimum insulation resistance values:

- (1) Main Power Circuits - 5 Megohms
- (2) Auxiliary/Control Circuits - 1 Megohm

c. Operational Testing. - The following systems at The Naval Hospital shall be operationally tested:

- (1) Key Interlock Systems
- (2) Ground Fault Systems

Operate closing, opening, and tripping mechanisms and adjust to manufacturer's tolerances. Operate electrical control circuits, auxiliary devices and remote close and trip circuits.

d. Functional Testing. - Perform function testing of each system to insure total system operation.

e. Inspection and Test Procedures. - The following inspection and test procedures are for the Medium-Voltage Vacuum Circuit Breakers.

(1) Visual and Mechanical Inspections

- (a) Inspect for physical damage, cleanliness, contact wear and hydraulic leaks.
- (b) Inspect anchorage, alignment, and grounding.
- (c) Perform all mechanical operations and alignments. Exercise breaker by opening and closing through all available means while checking the control functions. Test and adjust in accordance with manufacturer's instructions.
- (d) Thoroughly clean the Operating mechanism and all insulators.
- (e) Lubricate operating mechanism in accordance with manufacturer's instructions.
- (f) Check tightness of all fasteners by calibrated torque wrench method. Refer to manufacturer's instructions for torque values.

(2) Electrical Tests

- (a) Measure contact resistance
- (b) Perform overpotential test across the opened interrupter

contacts. Refer to manufacturer's instructions for correct voltages and time for test.

- (c) Perform insulation tests phase-to-phase and phase-to-ground.

(3) Test Values

- (a) Contact resistance shall be determined in micro-ohms. Resistance values should not exceed 100 micro-ohms.
- (b) Vacuum condition is satisfactory if interrupter withstands 38 kilovolts at 60 hertz for a period of one minute.

f. Inspection and Test Procedures - The following inspection and test procedure is for the SF6 Gas (Sulfur Hexafluoride) Circuit Breakers.

(1) Visual and Mechanical Inspections

- (a) Inspect for physical damage, cleanliness, and contact erosion.
- (b) Inspect anchorage, alignment, and grounding.
- (c) Perform all mechanical operations and alignment. Exercise breaker by opening and closing through all available means while checking the control functions. Test and adjust in accordance with manufacturer's instructions.
- (d) Thoroughly clean the operating mechanism, all insulators and ventilator filter.
- (e) Lubricate operating mechanism in accordance with manufacturer's instructions.
- (f) Check tightness of all fasteners by calibrated torque wrench method. Refer to manufacturer's instructions for torque values.

(2) Electrical Tests

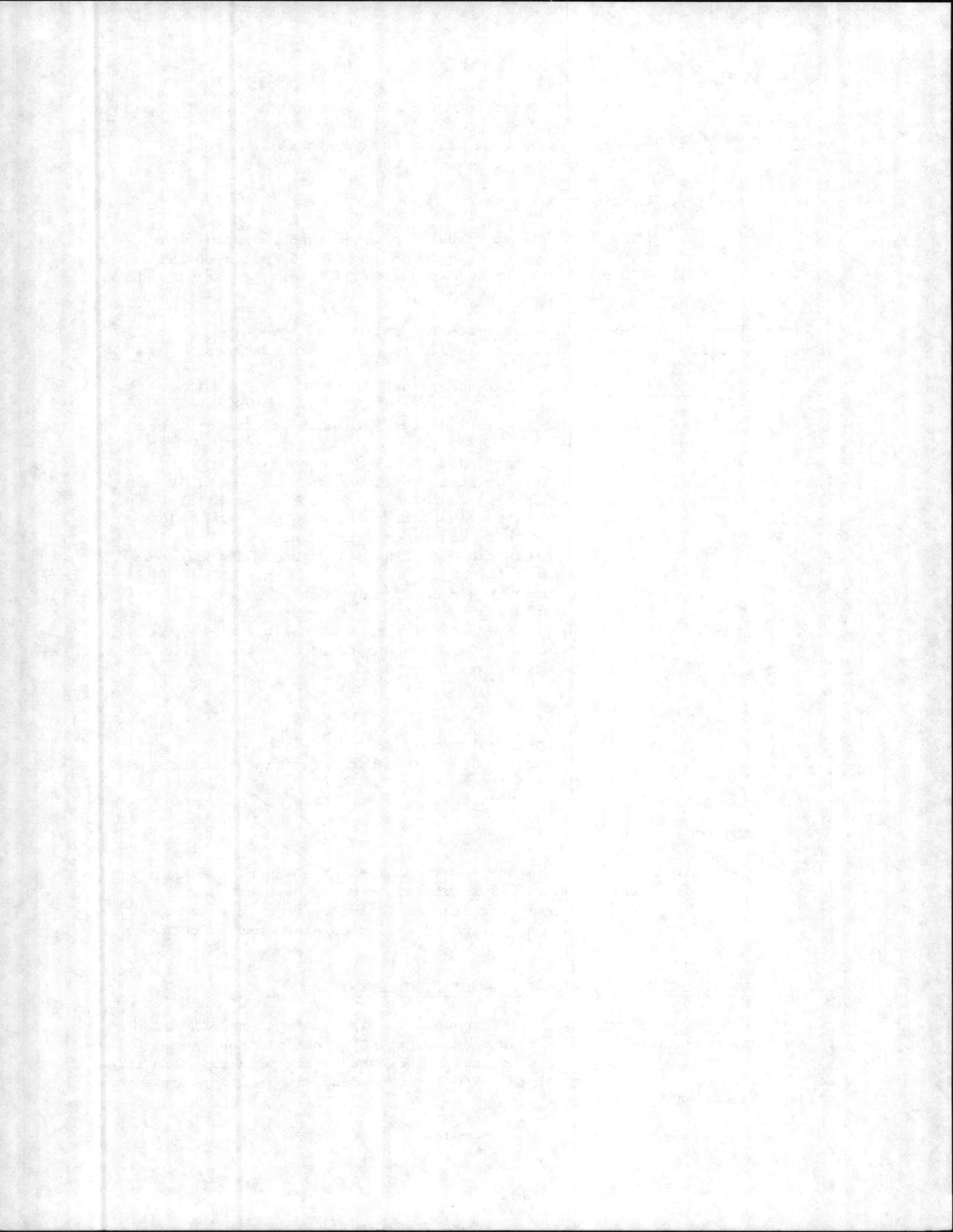
- (a) Measure contact resistance.
- (b) Perform power frequency dielectric test in accordance with manufacturer's instructions.
- (c) Perform insulation test phase-to-phase and phase-to-ground.

(3) Test Values

- (a) Contact resistance shall be determined in micro-ohms. Resistance values should not exceed 100 micro-ohms.
- (b) Bushings are considered satisfactory if no breakdowns occur with an applied 50 kilovolts at 60 hertz for a period of one minute.

C.6 CLEANING, INSPECTING, AND ADJUSTMENT REQUIREMENTS

a. Arc Interrupters - Remove arc chutes and insulating barriers. Inspect for cracks, tracking and broken or burned parts. Blow out all dust and debris with compressed air. Clean off discoloration caused by arc products with fine sand paper. Do not use emery cloth. Provide recommendation for replacement of damaged components.



b. Contacts - Inspect, clean, and adjust main and arcing contacts in accordance with manufacturer's instructions. Check for good alignment and proper pressure. Contacts shall be burnished to remove pitting and burn marks. If burnishing will not correct badly burned or pitted conditions, provide recommendation for replacement.

c. Operating Mechanism - Inspect for loose or broken parts, missing cotter pins or retaining keepers, missing nuts and bolts, and for binding or excessive wear. Adjust or recommend replacement of any part that prevents the closing and tripping action from meeting manufacturer's standards. If oil dashpots are used, they shall be disassembled and cleaned. The oil orifices shall be checked and set and the dashpot oil replaced with new oil as recommended by the manufacturer. Check trip arms on the various trip devices and adjust so that they engage trip bar properly. Lubricate all operational mechanisms in accordance with manufacturer's instructions.

d. Breaker Auxiliary Devices - Inspect the closing motor or solenoid, shunt trip and auxiliary switches for correct operation, insulation condition and tightness of connections. Check breaker position and spring-charge indicators and all interlocks, if so equipped. Adjust all devices for proper operation. Provide recommendation for replacement of all defective parts.

e. Lubrication and Cleaning - Vacuum, clean, and wipe dust from breaker frame, insulation and operating mechanism. Such items as latches, rollers, sleeve bearings, pivot pins, rotating parts, sliding surfaces, solenoid operators and contact arm hinge assembly shall be cleaned and lubricated. Lubricants and cleaning fluids shall be those recommended by the manufacturer for the specific application. Do not overlubricate. Do not use carbon tetrachloride. Lubrication shall not be performed on teflon sleeve bearings, roller and needle bearings, dry pivot points and arcing contacts. Also, provide a light coat of rust inhibitor on all steel surfaces that are not lubricated.

C.7 REPLACEMENT PARTS

Upon the discovery of worn or defective parts the Contractor shall provide to the Contracting Officer, by the next working day, a recommended replacement parts list for each piece of equipment for approval. The list shall contain each part required for replacement along with the price for materials and labor, from Bid Item 0002, the lead time for the replacement part, and the estimated additional time that the equipment must remain in place before the replacement part is installed. Contractor shall provide replacement parts. The replacement parts shall be new, compatible with existing parts, and in accordance with manufacturer's recommendations.

REFURBISHED
PARTS

C.8 GASKETS

Replace all gaskets of covers that are removed and provide new type gaskets. Apply "Red Devil" or equal on one side of new gaskets and petroleum jelly on the other side.

C.9. INSULATION OIL

1. The first part of the document is a list of names and addresses of the members of the committee. The names are listed in alphabetical order, and the addresses are given in full. The list is followed by a table of the names and addresses of the members of the committee who have been elected to the office of Secretary and Treasurer.

2. The second part of the document is a list of the names and addresses of the members of the committee who have been elected to the office of Secretary and Treasurer.

b. Contacts - Inspect, clean, and adjust main and arcing contacts in accordance with manufacturer's instructions. Check for good alignment and proper pressure. Contacts shall be burnished to remove pitting and burn marks. If burnishing will not correct badly burned or pitted conditions, provide recommendation for replacement.

c. Operating Mechanism - Inspect for loose or broken parts, missing cotter pins or retaining keepers, missing nuts and bolts, and for binding or excessive wear. Adjust or recommend replacement of any part that prevents the closing and tripping action from meeting manufacturer's standards. If oil dashpots are used, they shall be disassembled and cleaned. The oil orifices shall be checked and set and the dashpot oil replaced with new oil as recommended by the manufacturer. Check trip arms on the various trip devices and adjust so that they engage trip bar properly. Lubricate all operational mechanisms in accordance with manufacturer's instructions.

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e. Lubrication and Cleaning - Vacuum, clean, and wipe dust from breaker frame, insulation and operating mechanism. Such items as latches, rollers, sleeve bearings, pivot pins, rotating parts, sliding surfaces, solenoid operators and contact arm hinge assembly shall be cleaned and lubricated. Lubricants and cleaning fluids shall be those recommended by the manufacturer for the specific application. Do not overlubricate. Do not use carbon tetrachloride. Lubrication shall not be performed on teflon sleeve bearings, roller and needle bearings, dry pivot points and arcing contacts. Also, provide a light coat of rust inhibitor on all steel surfaces that are not lubricated.

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C.8 GASKETS

Replace all gaskets of covers that are removed and provide new neoprene type gaskets. Apply "Red Devil" or equal on one side of new gasket and petroleum jelly on the other side.

C.9. INSULATION OIL

a. Insulating Mineral Oil shall conform to ASTM-D-3487, Type II tested in accordance with ASTM-D-117.

b. Regular Testing/Maintenance. Insulating oil samples shall be taken as prescribed in ASTM D-923. Each sample shall be tested in accordance with ASTM-D-923 for dielectric strength, acidity, interfacial tension, and color. Record test values on approved certified test report forms. (See Attachment J-H2)

The following tests and standards are applicable:

<u>TEST</u>	<u>ASTM METHOD</u>	<u>STANDARD</u>
Dielectric Breakdown	D-877	24 KV (MIN)
Acidity	D-1534	0.4 mg (M)
Interfacial Tension (IFT)	D-971	24 Dyne
Color	D-1524	1.0 (MAX)
Power Factor	D-924	1.0% MAX
Neutralization Number (NN)	D-974	15mg KOH
Specific Gravity	D-1298	0.85 - 0.9
Moisture Content	D-1533	Less than or equal to 35 ppm
Myers Index (IFT/NN)		Greater than 160

The addition of insulating oil in excess of 2% by liquid volume to unit's capacity to improve test values is not acceptable.

c. Filter or replace the entire quantity of insulating oil in the equipment not meeting IEEE standards as contained in Guide Number 64.

If existing insulating oil fails the acidity test, the equipment shall be drained, uncovered, and flushed with new insulating oil conforming to the applicable IEEE standards. Cover and fill unit with new insulating oil conforming to the applicable IEEE standards.

Removed insulating oil shall be placed into "DOT Approved" storage barrels provided by the contractor. Filled storage barrels shall be delivered to lot 140 for government disposal. Provide 5 day written notice prior to delivery.

C.10 ACCREDITATION

a. All technicians assigned to the project shall be accredited as Certified Electrical Test Technologists by the National Institute for Certification of Engineering Technologists (NICET) or the National Electrical Testing Association (NETA). A Certified Technician shall sign all test results and reports.

b. Test Assistants and apprentices may be assigned to the project as Assistants to Certified Technicians at a ratio not to exceed one certified to one non-certified person. All work shall be performed under the direct supervision of a Certified Technician.



a. Insulating Mineral Oil shall conform to ASTM-D-3487, Type II tested in accordance with ASTM-D-117.

b. Regular Testing/Maintenance. Insulating oil samples shall be taken as prescribed in ASTM D-923. Each sample shall be tested in accordance with ASTM-D-923 for dielectric strength, acidity, interfacial tension, and color. Record test values on approved certified test report forms. (See Attachment J-H2)

The following tests and standards are applicable:

<u>TEST</u>	<u>ASTM METHOD</u>	<u>STANDARD</u>
Dielectric Breakdown	D-877	24 KV (MIN)
Acidity	D-1534	0.4 mg (MAX)
Interfacial Tension (IFT)	D-971	24 Dynes/cm (MIN)
Color	D-1524	1.0 (MAX)
Power Factor	D-924	1.0% MAX @ 25 degrees C., 60 Hz
Neutralization Number (NN)	D-974	0.15 mg KOH (MAX)
Specific Gravity	D-1298	0.865 - 0.9
Moisture Content	D-1533	Less than or equal to 35 ppm
Myers Index (IFT/NN)		Greater than 160

The addition of insulating oil in excess of 2% by liquid volume of the unit's capacity to improve test values is not acceptable.

c. Filter or replace the entire quantity of insulating oil in the equipment not meeting IEEE standards as contained in Guide Number 64.

If existing insulating oil fails the acidity test, the equipment shall be drained, uncovered, and flushed with new insulating oil conforming to the applicable IEEE standards. Cover and fill unit with new insulating oil conforming to the applicable IEEE standards.

Removed insulating oil shall be placed into "DOT Approved" storage barrels provided by the contractor. Filled storage barrels shall be delivered to lot 140 for government disposal. Provide 5 day written notice prior to delivery.

C.10 ACCREDITATION

a. All technicians assigned to the project shall be accredited as Certified Electrical Test Technologists by the National Institute for Certification of Engineering Technologists (NICET) or the National Electrical Testing Association (NETA). A Certified Technician shall sign all test results and reports.

b. Test Assistants and apprentices may be assigned to the project as Assistants to Certified Technicians at a ratio not to exceed one certified to one non-certified person. All work shall be performed under the direct supervision of a Certified Technician.

C.11 CONTRACTOR QUALITY CONTROL (QC)

In accordance with the "FAR 52.246-4, INSPECTION OF SERVICES - FIXED PRICE" Clause, Section E, the Contractor shall establish and maintain a complete QC Program that is acceptable to the Contracting Officer to assure that the requirements of the contract are provided as specified.

a. A general description of the Contractor's QC Program shall be available for Government review during the preaward survey. Four copies of the complete QC Program shall be provided to the Contracting Officer for review and approval within 15 days after award and as changes are made thereafter. The program shall include:

(1) A quality control inspection system covering all contract services. It must specify areas to be inspected on either a scheduled or unscheduled basis and how inspections are to be conducted.

(2) The name(s) and qualifications of the individual(s) tasked to perform the quality control inspections, and the extent of their authority.

(3) A method for identifying deficiencies in the quality of services performed and taking corrective action before the level of performance becomes unsatisfactory.

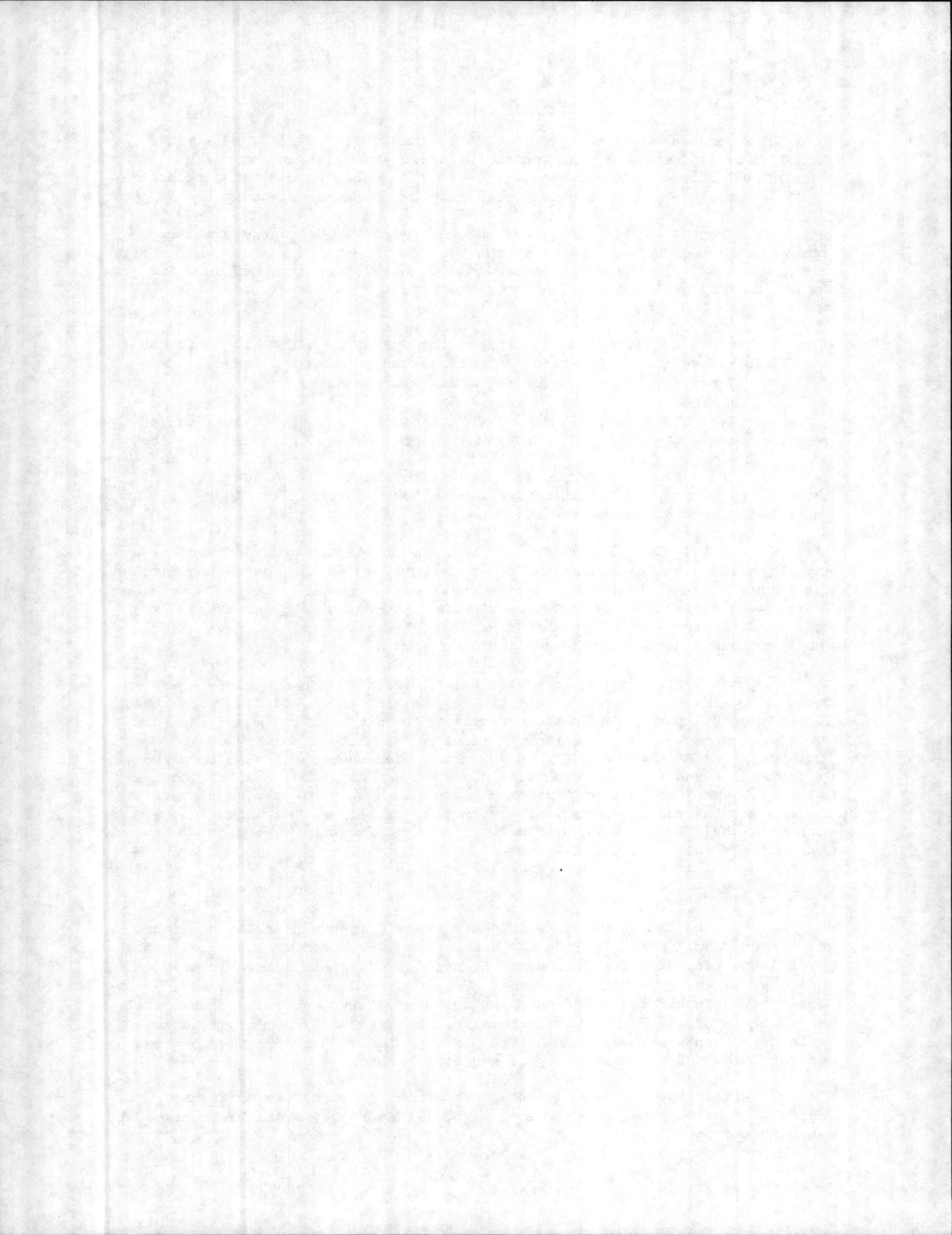
b. A file of all Quality Control Inspections, inspection results, and any corrective action required, shall be maintained by the Contractor through the term of this contract. This file shall be the property of the Government and be made available to the Contracting Officer during regular hours. The file shall be turned over to the Contracting Officer within 30 days after completion/termination of the contract.

c. Task Verification Document. A task verification document is a form designed by the Contractor for his use in planning and scheduling work items in the Lump Sum portion of the contract. The Contractor shall use the task verification document to provide verification and accountability of accomplished lump sum work. Included in this document shall also be a summary of inspection and testing results. This document shall be submitted to the QAE daily. The Contracting Officer may use the task verification document in the quality insurance program. The format of all task verification documents shall be approved by the Contracting Officer as a portion of the Contractor's Quality Control Plan.

C.12 REPORTS

a. Furnish Report Manual within two weeks of the end of the contract. The Report Manual shall include the test procedures, performance data, and parts list, etc. as per attachment J-H2 for all equipment listed in the equipment lists. The Contractor shall furnish seven copies of the Report Manual bound in hardback binders or an approved equivalent. The manual shall have a table of contents, page numbers, and be assembled to conform to the table of contents with the tab sheets placed before the report covering the subject. The report shall be typed and double-spaced.

b. Within one working day after completion of items listed in the Schedule of Deductions, a preliminary handwritten report shall be furnished to the Contracting Officer.



C.13 DRAWINGS ACCOMPANYING SPECIFICATION. The following drawings accompanying this specification are a part thereof. Drawings are the property of the Government and shall NOT be used for any purpose other than that contemplated by the specifications.

<u>NAVFAC</u> <u>DRAWING NO.</u>	<u>SHEET NO.</u>	<u>TITLE</u>
4160763	C-1	Location and Vicinity Map Marine Corps Base
4160764	E-1	Single-Line
4160765	E-2	Hadnot Point - Electrical Equipment
4160766	E-3	Camp Lejeune Various Areas - Electrical Equipment
4160767	E-4	Paradise Point - Electrical Equipment
4160768	E-5	Camp Lejeune Various Areas - Electrical Equipment
4160769	E-6	Marine Corps Air Station - Electrical Equipment
4160770	E-7	Marine Corps Air Station Single-Line Diagram

PART I- THE SCHEDULE

SCHEDULE D: PACKAGING AND DELIVERY

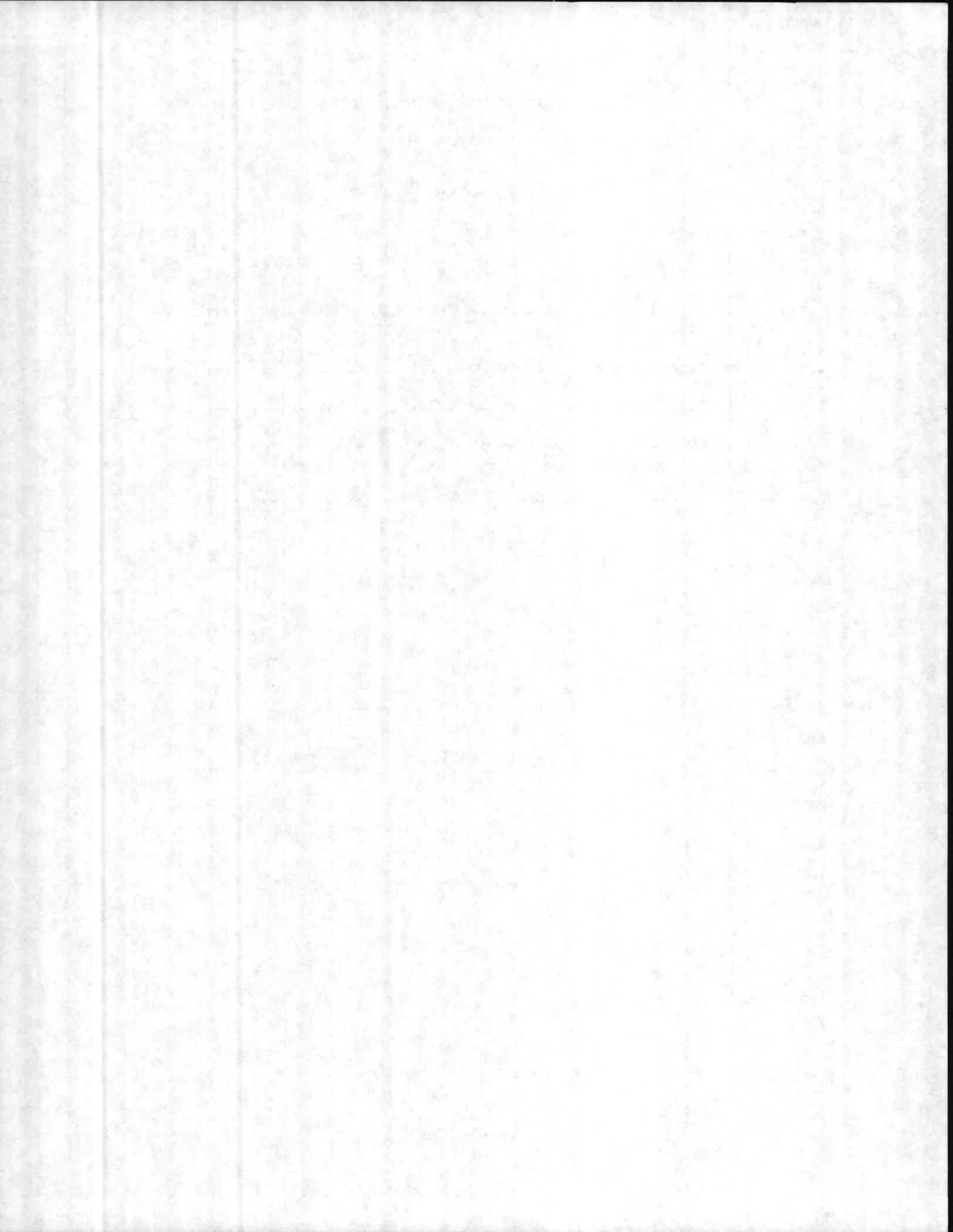
NOT APPLICABLE

PART I - THE SCHEDULE

SECTION E: INSPECTION AND ACCEPTANCE

TABLE OF CONTENTS

CLAUSE NO.	CLAUSE NAME	PAGE NO.
E.1	ACCEPTANCE.....	E-1
E.2	FAR 52.246-4, INSPECTION OF SERVICES-FIXED PRICE..... (APR 1984)	E-1
E.3	GOVERNMENT QUALITY ASSURANCE (QA).....	E-1
E.4	PERFORMANCE EVALUATION MEETINGS.....	E-2
E.5	CONSEQUENCES OF CONTRACTOR'S FAILURE TO PERFORM REQUIRED SERVICES.....	E-2
E.6	INSPECTION BY REGULATORY AGENCIES.....	E-3



PART I - THE SCHEDULE

SECTION E: INSPECTION AND ACCEPTANCE

E.1 ACCEPTANCE

The performance and quality of work delivered by the contractor, including services rendered and any documentation or written material compiled, shall be subject to inspection, review, and acceptance by the government.

E.2 FAR 52.246-4, INSPECTION OF SERVICES - FIXED-PRICE (APR 1984)

a. Definitions. "Services", as used in this clause, includes services performed, workmanship, and material furnished or utilized in the performance of services.

b. The Contractor shall provide and maintain an inspection system acceptable to the Government covering the services under this contract. Complete records of all inspection work performed by the Contractor shall be maintained and made available to the Government during contract performance and for as long afterwards as the contract requires.

c. The Government has the right to inspect and test all services called for by the contract, to the extent practicable at all times and places during the term of the contract. The Government shall perform inspections and tests in a manner that will not unduly delay the work.

d. If any of the services do not conform with contract requirements, the Government may require the Contractor to perform the services again in conformity with contract requirements, at no increase in contract amount. When the defects in services cannot be corrected by reperformance, the Government may (1) require the Contractor to take necessary action to ensure that future performance conforms to contract requirements and (2) reduce the contract price to reflect the reduced value of the services performed.

e. If the Contractor fails to promptly perform the services again or to take the necessary action to ensure future performance in conformity with contract requirements, the Government may (1) by contract or otherwise, perform the services and charge to the Contractor any cost incurred by the Government that is directly related to the performance of such service or (2) terminate the contract for default.

E.3 GOVERNMENT QUALITY ASSURANCE (QA)

In accordance with the "FAR 52.246-4, INSPECTION OF SERVICES - FIXED PRICE" Clause, Section E, each phase of the services rendered under this contract is subject to Government inspection during both the Contractor's operations and after completion of the tasks. The Government's Quality Assurance Surveillance Program is not a substitute for Quality Control by the Contractor. All findings of incomplete or defective performance will be administered in accordance with the "CONSEQUENCES OF CONTRACTOR'S FAILURE TO PERFORM REQUIRED SERVICES" clause, of Section E. All costs associated with

rework are the responsibility of the Contractor. When the Contractor's overall performance is unsatisfactory, a Discrepancy Report will be issued by the Contracting Officer or his designated representative. The Contractor shall reply in writing, giving the reason(s) for unsatisfactory performance, and identify the corrective action(s) to be taken to prevent recurrence.

E.4 PERFORMANCE EVALUATION MEETINGS

The Contractor's representative shall meet with the Government's representative monthly during the first three months of the contract. Thereafter, meetings will be as often as necessary at the discretion of the Contracting Officer, but not less than monthly. A mutual effort will be made to resolve all problems identified. The written minutes of these meetings, prepared by the Government, shall be signed by the Contractor's representative and the Government's representative. Should the Contractor not concur with the minutes, the Contractor shall state, in writing, to the Contracting Officer any areas of disagreement within five days after the meeting.

E.5 CONSEQUENCES OF CONTRACTOR'S FAILURE TO PERFORM REQUIRED SERVICES

a. The Government will give the Contractor written notice of deficiencies by copies of the Inspector's Daily Reports or otherwise, prior to charging liquidated damages, and whenever unsatisfactory services are performed. The parties hereto agree that due to the obligation of Contractor under another clause hereof to maintain an effective inspection system, the Contractor shall be conclusively presumed to have actual knowledge of work not performed, and that therefore such written notice will not be a prerequisite for withholding payment for unperformed services. Therefore:

(1) In the case of non-performed work, the Government:

(a) shall deduct from the Contractor's invoice all billings associated with such non-performed work at the rates set out in the Schedule of Deductions in Section B or required by other provisions of this contract, unless the Contractor is permitted or required to perform pursuant to (b) below and satisfactorily completes the work;

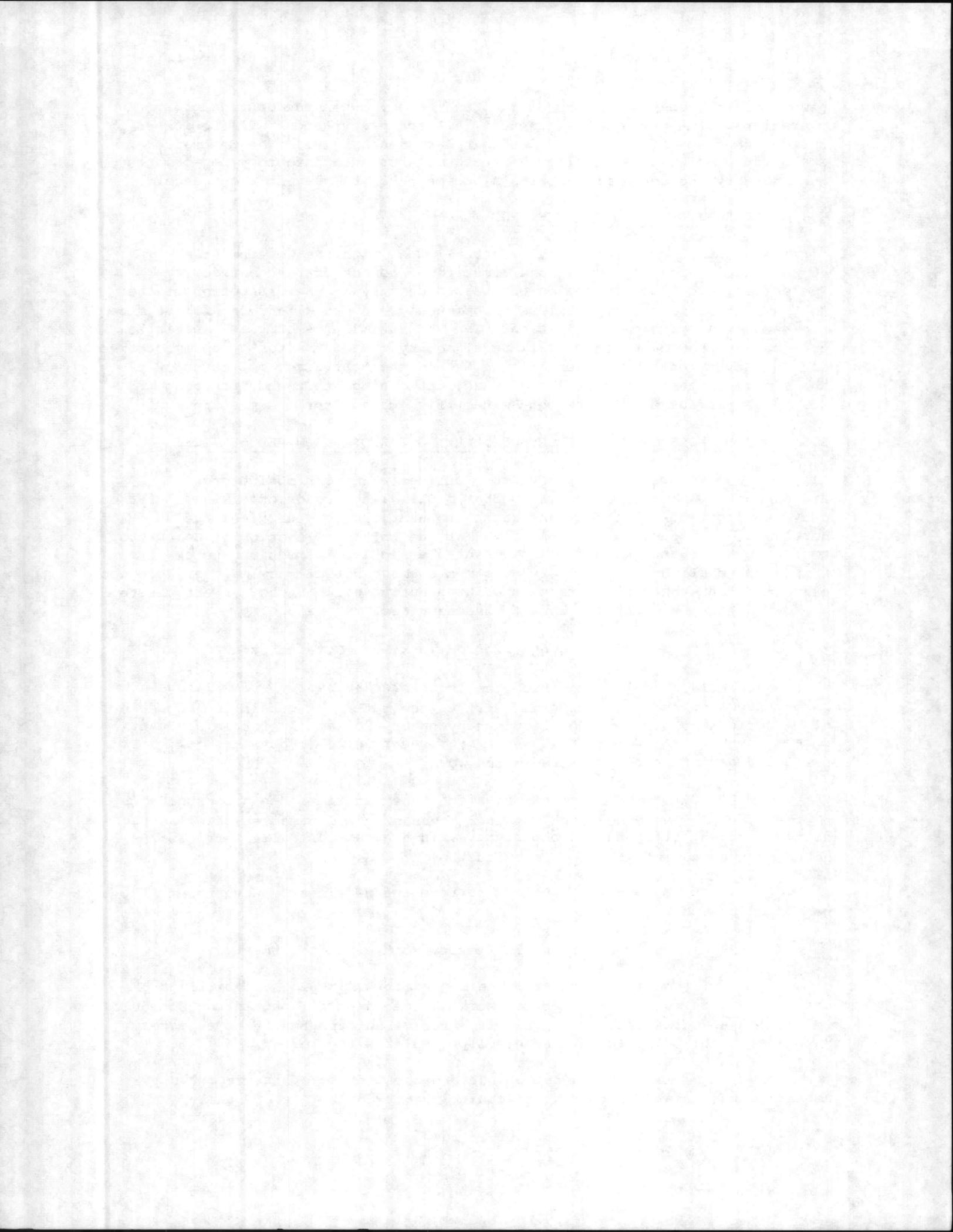
(b) may, at its option, afford the Contractor an opportunity to perform the non-performed work within 3 hours of the Contractor being advised that he will be afforded the opportunity, in the case of daily services; or 24 hours in the case of all other services; or

(c) may, at its option, perform the services by Government personnel or other means.

(2) In the case of unsatisfactory work, the Government:

(a) shall deduct from the Contractor's invoice all billings associated with such unsatisfactory work at the rates set out in the Schedules in Section B, unless the Contractor is afforded an opportunity to reperform pursuant to (b) below and satisfactorily completes the work;

(b) may, at its option, afford the Contractor the opportunity to reperform the unsatisfactory work within 3 hours in the case of daily



services, or within 24 hours in the case of all other services, of the notice to the Contractor of such unsatisfactory performance, at no additional cost to the Government; or

(c) may, at its option, perform the services by Government personnel or other means.

b. Should the Government elect options a(1)(a), a(1)(b), a(2)(a), or a(2)(b) above, the Government will also deduct, as liquidated damages, to compensate the Government for administrative costs and other expenses resulting from the non-performance or unsatisfactory performance, an additional 10% of the rate set forth in the Schedules in Section B for such work.

c. Should the Government elect options a(1)(c) or a(2)(c) above, the Government will effect the deduction described in a(1)(a) or a(2)(a) above, and will deduct an additional 20 percent of the rate set forth in the Schedules in Section B. This 20 percent is liquidated damages to compensate the Government for administrative costs and other expenses incurred by the Government to obtain satisfactory completion of the services.

d. Repeated instances of non-performance or unsatisfactory performance will be grounds for termination of the contract for default in accordance with Clause entitled "DEFAULT (Fixed Price Supply Service) (APR 1984)" of Section I.

(1) Government reserves the following rights:

(a) The rights described in the "DEFAULT (FIXED-PRICE SUPPLY AND SERVICE) (APR 1984)" Clause of Section I and all other remedies for default as may be provided by law.

(b) To hold the Contractor liable for property losses sustained by the Government as a direct, consequential result of a failure to furnish the required personnel.

(2) Computations of the costs of Government employees performance of work not performed by the contractor shall be in conformance with "Statement of Wage and Fringe Benefit Rates Applicable to Federal Wage Board (Blue Collar) Employees".

(3) The parties to this contract hereto agree that the contractor, as a result of his contractual obligation to supervise the personnel furnished and oversee the quality of their performance, shall be conclusively presumed to have actual knowledge of work not performed, and that therefore a written notice shall not be a prerequisite for withholding payment or assessing liquidated damages for nonperformed services.

E.6 INSPECTION BY REGULATORY AGENCIES

All work and work areas described in Section C are subject to inspection by the Marine Corps Base Fire Department. The Contractor shall provide personnel to accompany the regulatory agency inspection teams. Contractor personnel shall be knowledgeable concerning the items being inspected. The Contractor shall participate in responding to all requests for information and inspection or review findings by regulatory agencies.

PART I - THE SCHEDULE
SECTION F: DELIVERIES OR PERFORMANCE
TABLE OF CONTENTS

CLAUSE NO.	CLAUSE NAME	PAGE NO.
F.1	LOCATION.....	F-1
F.2	TERM OF CONTRACT.....	F-1
F.3	PRE-PERFORMANCE CONFERENCE.....	F-1
F.4	WORK SCHEDULE.....	F-1
F.5	WORK OUTSIDE REGULAR WORKING HOURS.....	F-2
F.6	FAR 52.212-15; GOVERNMENT DELAY OF WORK..... (APR 1984)	F-2

PART I - THE SCHEDULE

SECTION F: DELIVERIES OR PERFORMANCE

F.1 LOCATION - The work shall be located at the Marine Corps Base, Naval Hospital, Camp Lejeune, NC and the Marine Corps Air Station, New River, Jacksonville, NC. The exact location(s) will be indicated by the Contracting Officer.

F.2 TERM OF CONTRACT

The contract term shall be for a base period of one year, commencing 1 October 1987, or date of award, whichever is later, through 30 September 1988. The Government has the option to extend the term of the contract in accordance with the "OPTION TO EXTEND THE TERM OF THE CONTRACT - SERVICES" clause in Section I. In the option periods the Government will adjust the prices, as required, based on new Department of Labor Wage Rate Determinations.

F.3 PRE-PERFORMANCE CONFERENCE

Prior to commencing work, the Contractor shall meet in conference with the Contracting Officer, at a time to be determined by the Contracting Officer, to discuss and develop mutual understandings relative to scheduling and administering work.

F.4 WORK SCHEDULE

a. The Contractor shall arrange his work so as not to cause interference with normal occurrence of Government business. All work schedules required shall be submitted to and be approved by the Contracting Officer. In no event shall the Contractor change approved work schedules without the prior consent of the Contracting Officer. Whenever non-essential services have been scheduled on the date a holiday occurs, such services shall be performed on the following working day.

b. Initial Work Schedule. Within 15 days after award, the Contractor shall submit to the Contracting Officer a general schedule of planned performance of work for the contract period. The Schedule shall indicate the equipment to receive services, the location of the equipment, and when the Contractor intends to accomplish that particular portion of the work. This schedule shall be projected for one year.

c. Monthly Work Schedule. The Contractor shall develop a monthly work schedule for all work under this contract. The schedule shall be submitted to the Contracting Officer for approval five (5) working days prior to the start of the schedule month. The schedule shall identify all work including work ordered under the indefinite quantity portion of the contract. The schedule shall identify indefinite quantity work by delivery order or job order number and title, and indicate the scheduled start and completion dates. Recurring services shall be identified and the date of performance indicated. Changes or additions to any job that prevent the Contractor from completing the work on time or which change the scope of the work shall be reported to the Contracting Officer in writing.

d. Service Interruptions. If any services must be disconnected (even temporarily) due to scheduled contract work, the Contractor shall notify in writing the Contracting Officer, affected tenants, customers, and areas at least ten working days in advance. If the discontinued service is due to any emergency breakdown, the Contractor shall notify the Contracting Officer, affected tenants and customers as soon as possible.

F.5 WORK OUTSIDE REGULAR WORKING HOURS

Except as may otherwise be specified, all work that does not create a power outage shall be performed during regular working hours as defined in the "DEFINITIONS-TECHNICAL" clause in Section C. If the Contractor desires to carry on work on Saturday, Sunday, holidays or outside of the station's regular hours, he may submit application to the Contracting Officer for approval consideration.

F.6 FAR 52.212-15; GOVERNMENT DELAY OF WORK (APR 1984)

(a) If the performance of all or any part of the work of this contract is delayed or interrupted (1) by an act of the Contracting Officer in the administration of this contract that is not expressly or impliedly authorized by this contract, or (2) by a failure of the Contracting Officer to act within the time specified in this contract, or within a reasonable time if not specified, an adjustment (excluding profit) shall be made for any increase in the cost of performance of this contract caused by the delay or interruption and the contract shall be modified in writing accordingly. Adjustment shall also be made in the delivery or performance dates and any other contractual term or condition affected by the delay or interruption. However, no adjustment shall be made under this clause for any delay or interruption to the extent that performance would have been delayed or interrupted by any other cause, including the fault or negligence of the Contractor, or for which an adjustment is provided or excluded under any other term or condition of this contract.

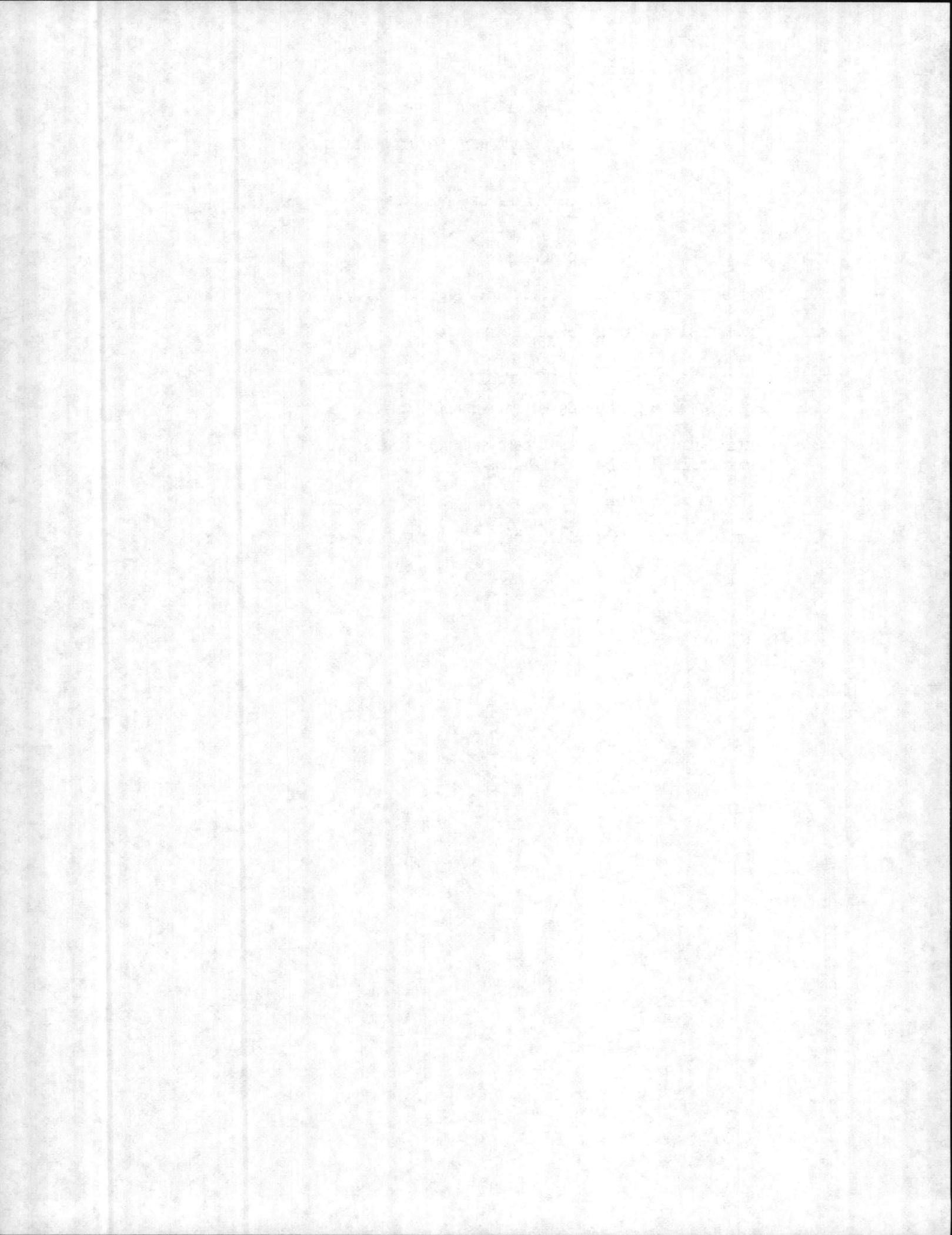
(b) A claim under this clause shall not be allowed (1) for any costs incurred more than 20 days before the Contractor shall have notified the Contracting Officer in writing of the act or failure to act involved, and (2) unless the claim, in an amount stated, is asserted in writing as soon as practicable after the termination of the delay or interruption, but not later than the day of final payment under the contract.

PART I - THE SCHEDULE

SECTION G: CONTRACT ADMINISTRATION DATA

TABLE OF CONTENTS

CLAUSE NO.	CLAUSE NAME	PAGE NO.
G.1	ORDERING OF WORK.....	G-1
G.2	INVOICES (OCT 1982)(DFARS 52.232-7000).....	G-1
G.3	INVOICING INSTRUCTIONS.....	G-2
G.4	MODIFICATION PROPOSALS - PRICE BREAKDOWN.....	G-2
G.5	PRICE ADJUSTMENTS IN THE OPTION YEARS FOR..... CHANGES IN WAGE DETERMINATIONS	G-3
G.6	MINIMUM WAGE RATES.....	G-4
G.7	OPTION PERIOD RENEWAL NOTICE.....	G-4



PART I - THE SCHEDULE

SECTION G: CONTRACT ADMINISTRATION DATA

G.1 ORDERING OF WORK

a. Delivery orders for the Indefinite Quantities portion of the contract will take the form of Department of Defense form DD Form 1155. DD Form 1155 will be processed as described on the form. The Contracting Officer will designate persons in writing as Ordering Officers with authority to approve issuance of delivery orders. See Attachment J-G1.

b. Delivery orders will be issued to the Contractor in triplicate. One copy shall be submitted by the Contractor with the invoice for payment, one copy shall be submitted within 24 hours of completion of work, and one copy retained by the Contractor.

c. Oral Orders: The Ordering Officers (designated per a. above) may issue oral orders only in emergency circumstances. Oral orders will be confirmed by issuance of a written Delivery Order on DD Form 1155 within two (2) working days.

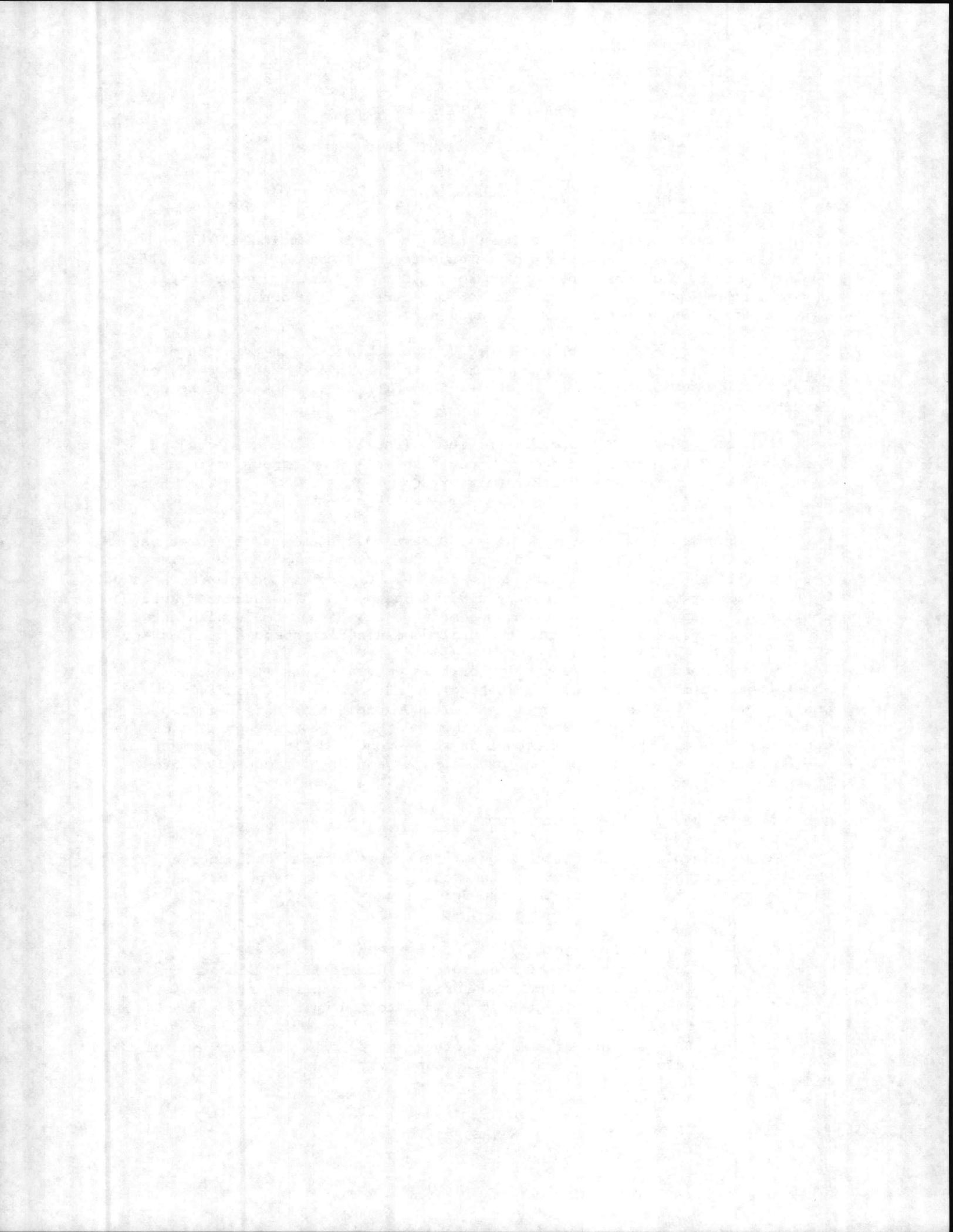
d. Amendments to delivery orders: Orders may be amended by agreement between the Contracting Officer and the contractor. Amendments to delivery orders shall be effected on a Standard Form 30. Orders may be amended orally by the Ordering Officer in emergency circumstances. Oral amendments shall be confirmed by issuance of a written amendment of Standard Form 30 within two (2) working days from the time of the oral communication amending the order.

e. The Firm Fixed Price portion of this contract constitutes the guaranteed minimum of the work delineated in FAR 52.216-22, "Indefinite Quantity (Apr 1984)" clause, Section I. The Government is not obligated to order a minimum quantity of work under the Indefinite Quantity portion of the contract; however, the maximum amount of work ordered during the contract period will not exceed 200 percent of the total amount bid for Indefinite Quantity Work.

G.2 DFARS 52.232-7000; INVOICES (OCT 1982)

(a) An invoice is a written request for payment under the contract for supplies delivered or for services rendered. In order to be proper, an invoice must include as applicable the following:

- (1) Invoice date;
- (2) Name of Contractor;
- (3) Contract number (including order number if any), contract line item number, contract description of supplies or services, quantity, contract unit of measure and unit price, and extended total;
- (4) Shipment number and date of shipment (bill of lading number and weight of shipment will be shown for shipments on government bills of lading);



- (5) Name and address to which payment is to be sent (which must be the same as that in the contract or on a proper notice of assignment);
- (6) Name (where practicable) title, phone number and mailing address of person to be notified in event of a defective invoice; and
- (7) Any other information or documentation required by other provisions of the contract (such as evidence of shipment).

Invoices shall be prepared and submitted with three copies (one copy shall be marked "original") unless otherwise specified.

(b) For purposes of determining if interest begins to accrue under the Prompt Payment Act (Public Law 97-177):

- (1) A proper invoice will be deemed to have been received when it is received by the office designated in the contract for receipt of invoices and acceptance of supplies delivered or services rendered has occurred;
- (2) payment shall be considered made on the date on which a check for such payment is dated;
- (3) payment terms (e.g., "net 20") offered by the Contractor will not be deemed a "required payment date;" and
- (4) the following periods of time will not be included

(i) after receipt of an improper invoice and prior to notice of any defect or impropriety, but not to exceed 15 days (or any lesser period established by this contract); and

(ii) between the date of a notice of any defect or impropriety and the date a proper invoice is received. When the notice is in writing, it shall be considered made on the date shown in the notice.

G.3 INVOICING INSTRUCTIONS

Contractor's invoices shall be submitted to the Contracting Officer in triplicate at monthly intervals for services performed and shall have the monthly work schedule and task verification document attached thereto. Payment will be based on invoices submitted by the contractor for satisfactorily completed work. Upon verification of work actually performed and receipt of required Contractor submittals as identified in Attachment J-G2 of this section, invoices will be processed for payment.

G.4 MODIFICATION PROPOSALS - PRICE BREAKDOWN

The Contractor, in connection with any proposal he makes for a contract modification, shall furnish a price breakdown, itemized as required by the Contracting Officer. Unless otherwise directed, the breakdown shall be in sufficient detail to permit an analysis of all material, labor, equipment, subcontract, and overhead costs, as well as profit, and shall cover all work involved in the modification, whether such work was deleted, added, or changed. Any amount claimed for subcontractors shall be supported by a similar price breakdown.

In addition, if the proposal includes a time extension, a justification thereof shall also be furnished. The proposal, together with the price breakdown and time extension justification, shall be furnished by the date specified by the Contracting Officer.

G.5 PRICE ADJUSTMENTS IN THE OPTION YEARS FOR CHANGES IN WAGE DETERMINATIONS

a. General. Where, as a result of the Department of Labor determination of minimum prevailing wages and fringe benefits applicable at the beginning of the renewal option period, the Contractor increases or decreases wages or fringe benefits of employees working on this contract to comply with the wage determination, the affected contract unit prices and composite labor rates will be adjusted to reflect such increases or decreases. Any such adjustments will be limited to increases or decreases in wages or fringe benefits as described above, and the concomitant increases or decreases in social security and unemployment taxes and workmen's compensation insurance, but shall not otherwise include any amount for general and administrative costs, overhead, or profits. The Contractor warrants that the prices set forth in this contract do not include any allowance for any contingency to cover increased costs for which adjustment is provided herein.

b. Payroll Records and Documentation. When requested, the Contractor shall provide to the Contracting Officer any payroll records and documentation for Service Contract Act work required by the Contracting Officer to verify information concerning wages, hours expended, or price adjustments. Failure to provide the requested payroll records and documents may result in no price adjustments.

c. Payroll Information. The Contracting Officer will notify the Contractor of any increase or decrease in the wage determinations applicable to this contract. The Contractor shall provide to the Contracting Officer, upon request, the direct labor hours expended in the lump sum portion of the contract and the direct labor hours expended in the indefinite quantity portion of the contract. The Contractor shall identify by trade the wage rate paid and the direct labor hours expended in the lump sum portion of the contract. For each item in the Schedule of Indefinite Quantity Work, the Contractor shall identify by trade the wage rate paid and the direct labor hours expended.

d. Computation of Adjusted Unit Prices for Schedule of Indefinite Quantity Work. The unit price adjustments for each unit price in the Schedule of Indefinite Quantity Work will be determined independently following the procedure described. For each trade involved in accomplishing the work item, the difference between the rate paid and the new wage determination rate will be multiplied by the actual hours expended. This product for each trade will be totaled and then divided by the actual number of units ordered. The resulting figure will be the unit price adjustment.

e. Computation of Adjusted Prices for Schedule of Deductions. The price adjustments for the Schedule of Deductions will be determined following the procedure described. For each trade, the difference between the rate paid and the new wage determination rate will be multiplied by the actual hours expended. This product is the total adjustment for the Fixed Price lump sum

portion of the contract. The total adjustment will be distributed among the items of work in the Schedule of Deductions by taking the total price for each item of work, dividing by the total of the Schedule of Deductions, and multiplying by the total adjustment for the lump sum portion of the contract. The adjusted total item of work price will be the sum of the original item of work price and the adjustment. Each unit price in the schedule will be computed by dividing the adjusted total item of work price by the number of units.

G.6 MINIMUM WAGE RATES

The minimum wage rates to be paid for work under this specification will be requested from the Department of Labor for each potential area of performance based on the response to the initial solicitation and will be issued by ammendment upon receipt.

G.7 OPTION PERIOD RENEWAL NOTICE

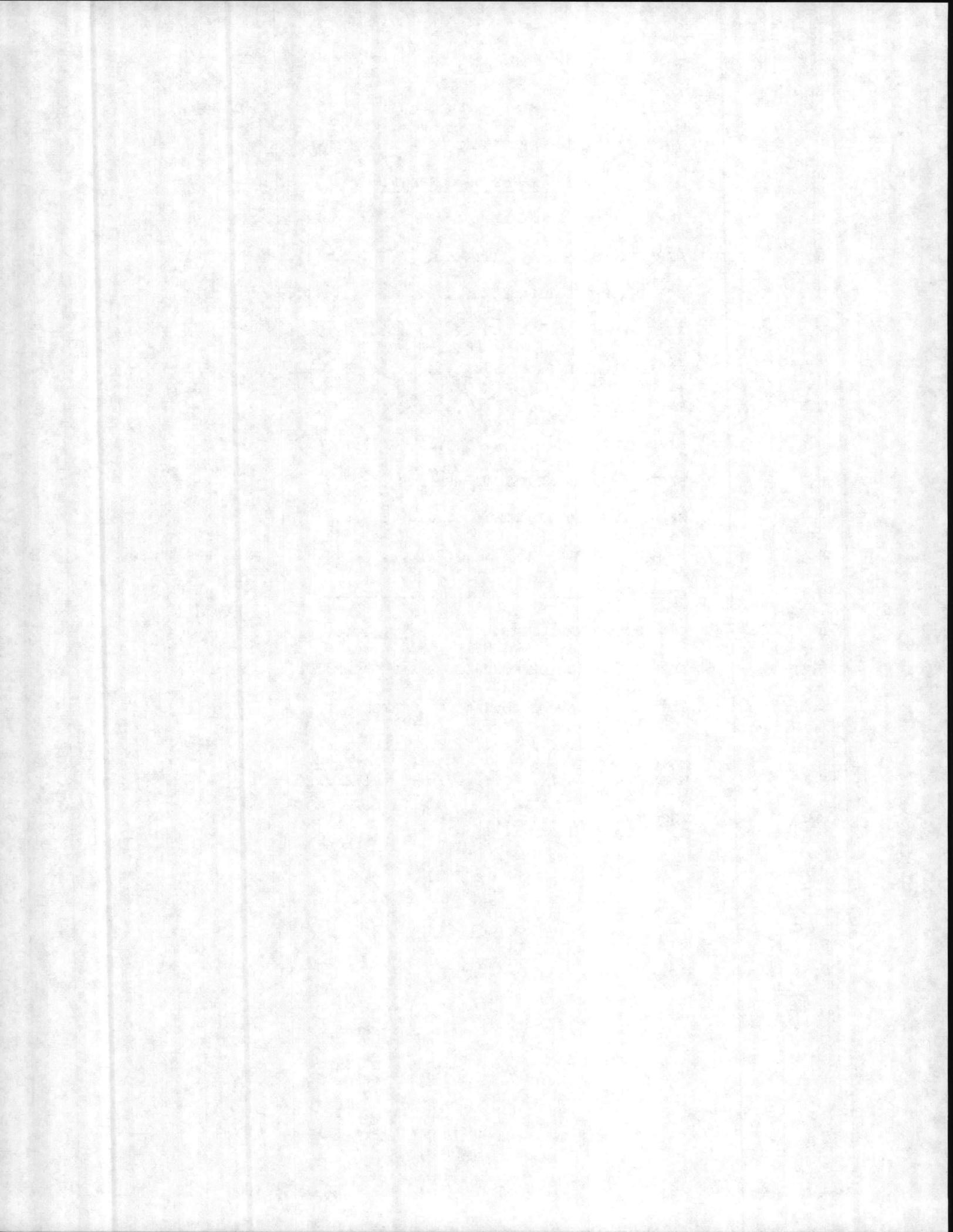
Written notice of the Government's intent to exercise an option period will be given to the Contractor by the Contracting Officer not less than 30 days before the contract is to expire. (See Section I, "Option to Extend the Term of the Contract", FAR 52.217-9)

PART I - THE SCHEDULE

SECTION H: SPECIAL CONTRACT REQUIREMENTS

TABLE OF CONTENTS

CLAUSE NO.	CLAUSE NAME	PAGE NO.
H.1	DIRECTIVES.....	H-1
H.2	STATION REGULATIONS.....	H-1
H.3	FIRE PREVENTION.....	H-1
H.4	ENVIRONMENTAL PROTECTION.....	H-1
H.5	SALVAGE.....	H-1
H.6	DISPOSAL.....	H-1
H.7	SAFETY REQUIREMENTS AND REPORTS.....	H-2
H.8	SECURITY REQUIREMENTS.....	H-2
H.9	PASSES AND BADGES.....	H-3
H.10	ACCESS TO BUILDINGS.....	H-3
H.11	CONTRACTOR EMPLOYEES.....	H-4
H.12	IDENTIFICATION OF CONTRACTOR EMPLOYEES.....	H-4
H.13	IDENTIFICATION OF CONTRACTOR VEHICLES.....	H-4
H.14	PERMITS.....	H-4
H.15	WARRANTY OF SERVICES.....	H-5
H.16	INSURANCE.....	H-6



H.1 DIRECTIVES

Applicable Department of Defense (DOD), Secretary of the Navy (SECNAV), Chief of Naval Operations (OPNAV), and other directives, instructions, and regulations are listed in Attachment J-C2

H.2 STATION REGULATIONS

The Contractor and his employees shall become acquainted with and obey all Government regulations as posted, or as requested by the Contracting Officer. See Attachment J-H1.

H.3 FIRE PREVENTION

The Contractor shall insure that he and his employees shall know how to turn in a fire alarm. The Contractor shall observe all requirements for handling and storage of combustible supplies, materials, waste and trash.

H.4 ENVIRONMENTAL PROTECTION

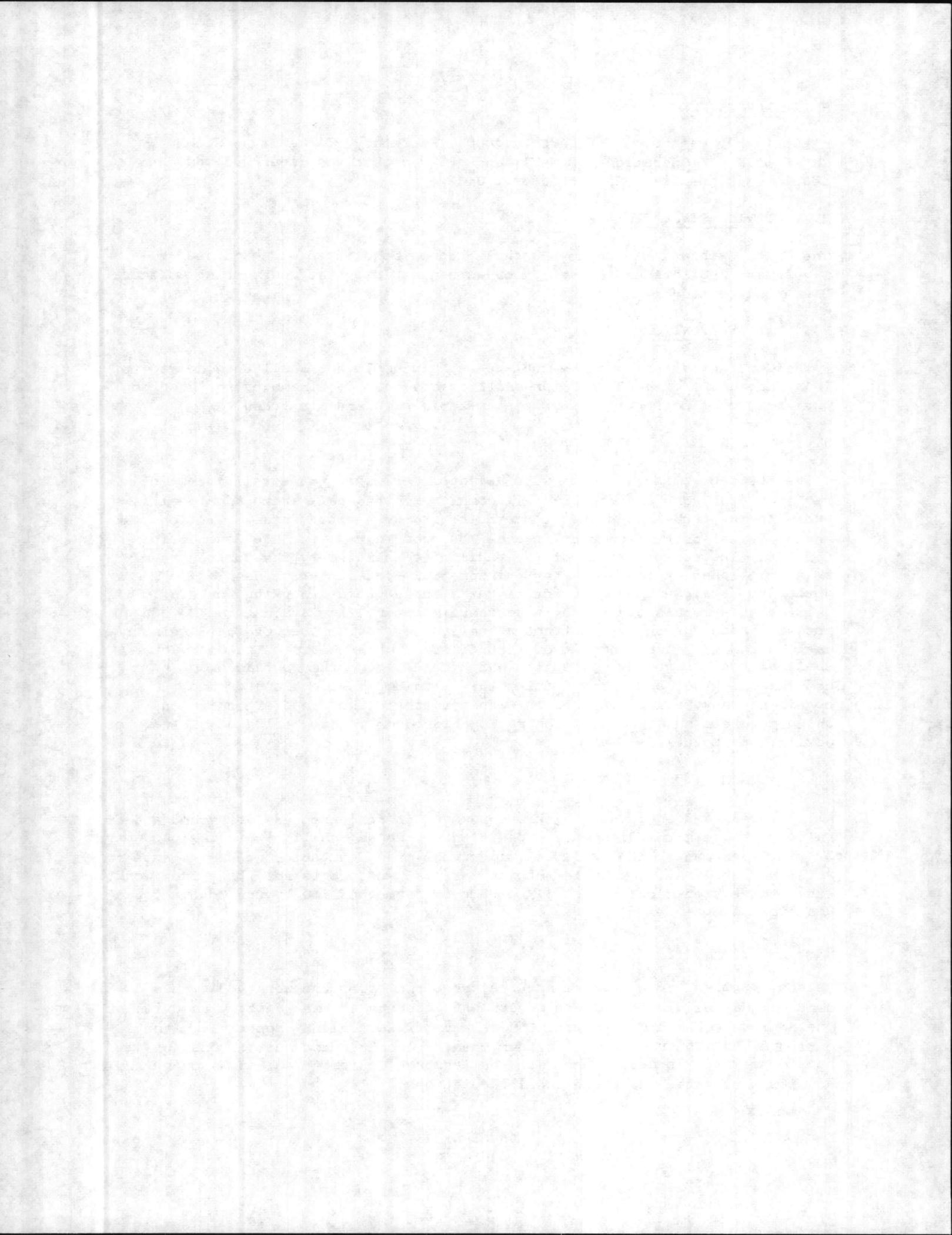
The Contractor shall comply with all applicable environmental protection requirements. The Contractor shall comply with federal, state and local laws and with the regulations and standards regarding environmental pollution. All environmental protection matters shall be coordinated with the Contracting Officer. Inspection of any of the facilities operated by the Contractor may be accomplished by the Activity Environmental Protection Coordinator, or authorized officials on a no-notice basis during normal working hours. In the event that a regulatory agency assesses a monetary fine against the Government for violations caused by Contractor negligence, the Contractor shall reimburse the Government for the amount of that fine and other costs. The Contractor shall also clean up any oil spills which result from the Contractor's operations. The Contractor shall comply with the instructions of the cognizant Navy Medical Department with respect to avoidance of conditions which create a nuisance or which may be hazardous to the health of military or civilian personnel.

H.5 SALVAGE

All material and equipment which are removed or disconnected, are sound and of value, but are not indicated or specified for reuse, shall remain the property of the Government. They will be delivered by the Contractor at his expense to Building 1202. All nonusable surplus material and debris resulting from work under these specifications shall be removed from the site by the Contractor at his expense.

H.6 DISPOSAL

Debris, rubbish and nonusable material resulting from the work under this contract may be disposed of on Government property at the Sanitary Landfill at the approval of the Contracting Officer or off Government property, at the option of the Contractor. In either case, the contractor must dispose of all hazardous waste in accordance with the Resource Conservation and Recovery Act and its associated state and local regulations.



H.7 SAFETY REQUIREMENTS AND REPORTS

a. All work shall be conducted in a safe manner and shall comply with the requirements described in the ACCIDENT PREVENTION clause in Section I and in Attachment J-H1 of this section. The government will not provide safety equipment to the contractor.

b. Prior to commencing work, the Contractor shall meet in conference with the Contracting Officer to discuss and develop mutual understandings relative to administration of the Safety Program.

c. The Contractor's workspace may be inspected periodically for OSHA and Navy violations. Abatement of violations will be the responsibility of the Contractor and/or the Government as determined by the Contracting Officer. The Contractor will provide assistance to the Safety Office escort and the federal or state OSHA inspector if a complaint is filed. Any fines levied on the Contractor by federal or state OSHA offices due to safety/health violations will be paid promptly.

d. In accordance with the ACCIDENT PREVENTION clause in Section I, the contractor shall report to the Contracting Officer in the manner and on the forms prescribed in Attachment J-H1, exposure data and all accidents resulting in death, trauma, or occupational disease. All accidents must be reported to the Contracting Officer within 24 hours of their occurrence.

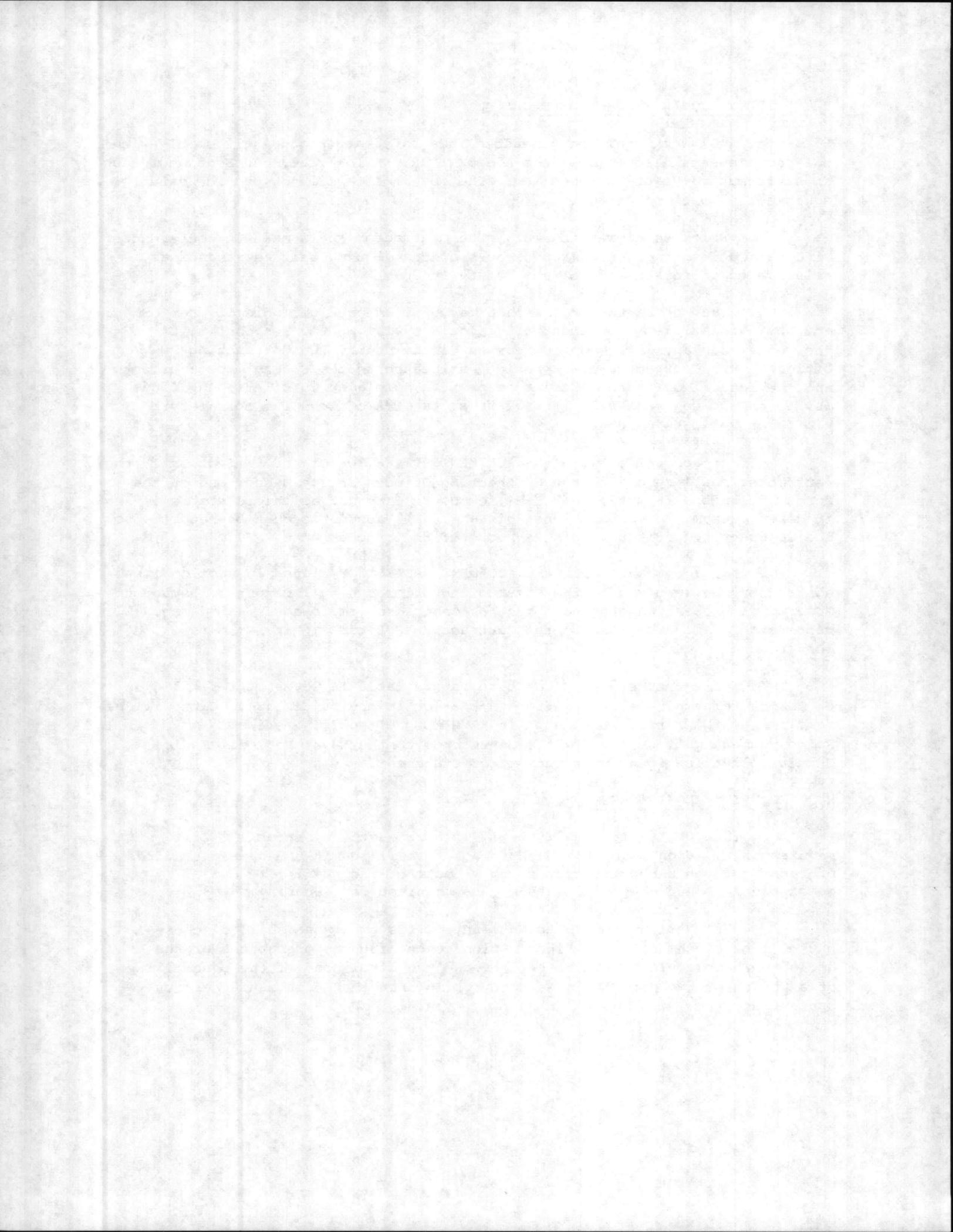
e. In accordance with the ACCIDENT PREVENTION clause in Section I, the contractor shall submit to the Contracting Officer a full report of damage to Government property and/or equipment by contractor employees. All damage reports shall be submitted to the Contracting Officer within 24 hours of the occurrence.

f. Only emergency medical care is available in Government facilities to Contractor employees who suffer on-the-job injury or disease. Care will be rendered at the rates established in NAVMEDCOMNOTE 6320.3 series. Reimbursement will be made by the Contractor to the Naval Regional Medical Center Collection Agent upon receipt of statement.

H.8 SECURITY REQUIREMENTS

a. The Contractor shall comply with all activity security requirements. Upon request, the Contractor shall submit the name and address of each employee hired for work on this contract and shall fill out questionnaires and other forms as may be required for security.

b. Neither the Contractor nor any of its employees shall disclose or cause to be disseminated any information concerning the operations of the activity which could result in or increase the likelihood of the possibility of a breach of the activity's security or interrupt the continuity of its operations.



c. Disclosure of information relating to the services hereunder to any person not entitled to receive it, or failure to safeguard any classified information that may come to the Contractor or any person under his control in connection with work under this contract, may subject the Contractor, his agents or employees to criminal liability under 18 U.S.C., Sections 793 and 798.

d. All inquiries, comments or complaints arising from any matter observed, experienced, or learned as a result of or in connection with the performance of this contract, the resolution of which may require the dissemination of official information will be directed to the activity Commander.

e. Deviations from or violations of any of the provisions of this paragraph will, in addition to all other criminal and civil remedies, provided by law subject the Contractor to immediate termination for default and/or the individuals involved to a withdrawal of the Government's acceptance and approval of employment.

H.9 PASSES AND BADGES

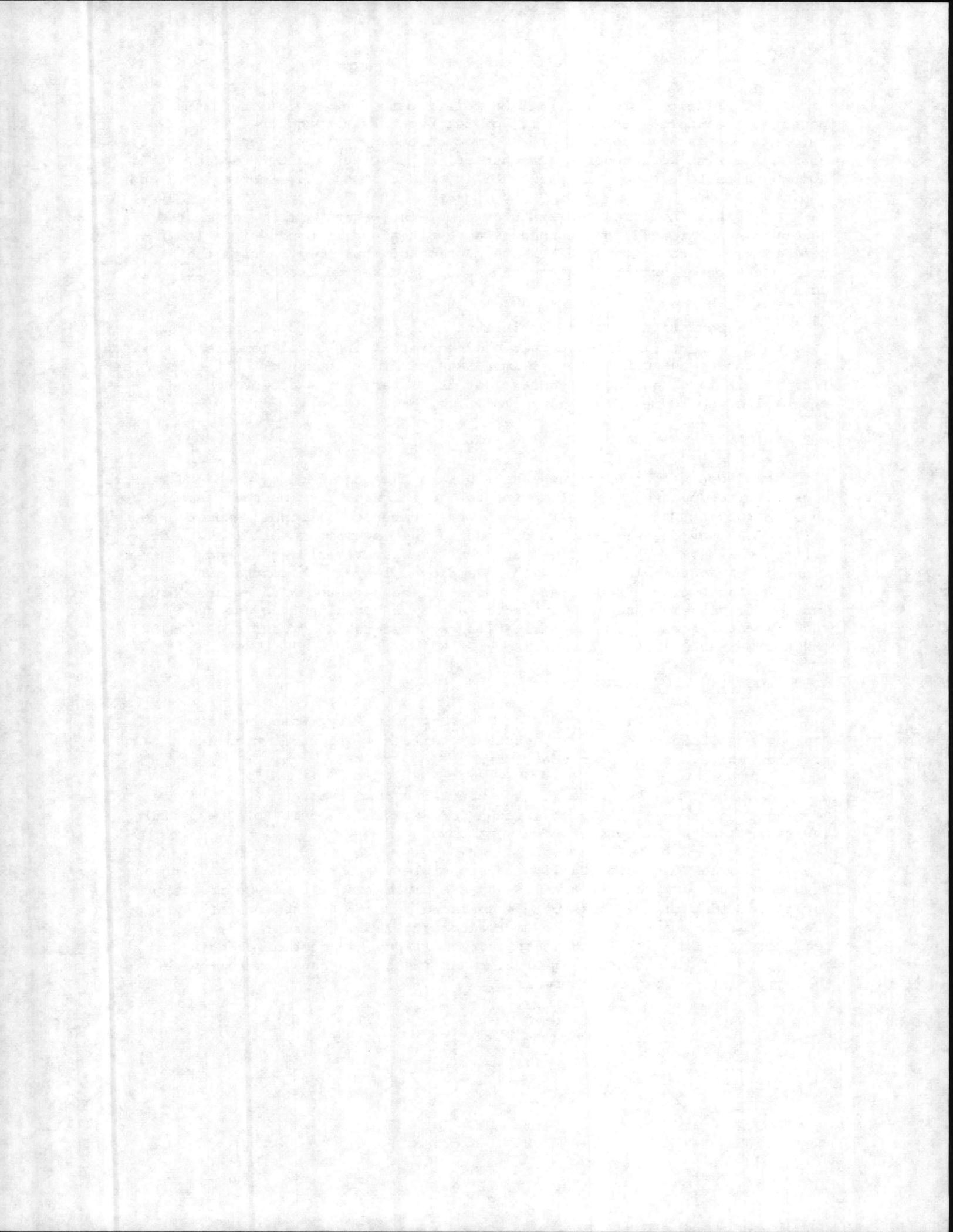
All Contractor employees shall obtain the required employee and vehicle passes. The Contractor shall, prior to the start of the contract, submit to the Contracting Officer an estimate of the number of personnel expected to be utilized at any one time on the contract. The Government will issue badges without charge. Each employee shall wear the Government issued badge over the front of the outer clothing. When an employee leaves the Contractor's service, the employee's pass and badge shall be returned within three days. Passes and badges issued to Contractor employees shall not negate the requirement for employee identification required in the "IDENTIFICATION OF CONTRACTOR EMPLOYEES" paragraph, Section H.

H.10 ACCESS TO BUILDINGS

a. It shall be the Contractor's responsibility, through the Contracting Officer, to obtain access to buildings and facilities and arrange for them to be opened and closed.

b. Keys may be issued to the Contractor; however, it shall be the Contractor's responsibility to arrange for adequate security of the buildings and facilities at the end of each work day.

c. The Contractor shall be responsible for the cost of replacing any keys that are furnished to and lost by his employees. If the Contracting Officer decides that a lock must be replaced because of the loss of a key by the Contractor's employees, the Contractor shall pay the cost of that replacement. Similarly, the Contractor shall pay the cost of changing a combination if the Contracting Officer has reasonable cause to believe that the combination has been compromised.



H.11 CONTRACTOR EMPLOYEES

a. In accordance with the SUPERINTENDENCE BY CONTRACTOR clause in Section I, the contractor shall provide to the Contracting Officer the name or names of the responsible supervisory person or persons authorized to act for the contractor.

b. The Contractor shall furnish sufficient personnel to perform all work specified within the contract.

c. Contractor employees shall conduct themselves in a proper, efficient, courteous and businesslike manner.

d. The Contractor shall remove from the site any individual whose continued employment is deemed by the Contracting Officer to be contrary to the public interest or inconsistent with the best interests of National Security.

e. No employee or representative of the Contractor will be admitted to the site of work unless he furnishes satisfactory proof that he is a citizen of the United States, or, if an alien, his residence within the United States is legal.

H.12 IDENTIFICATION OF CONTRACTOR EMPLOYEES

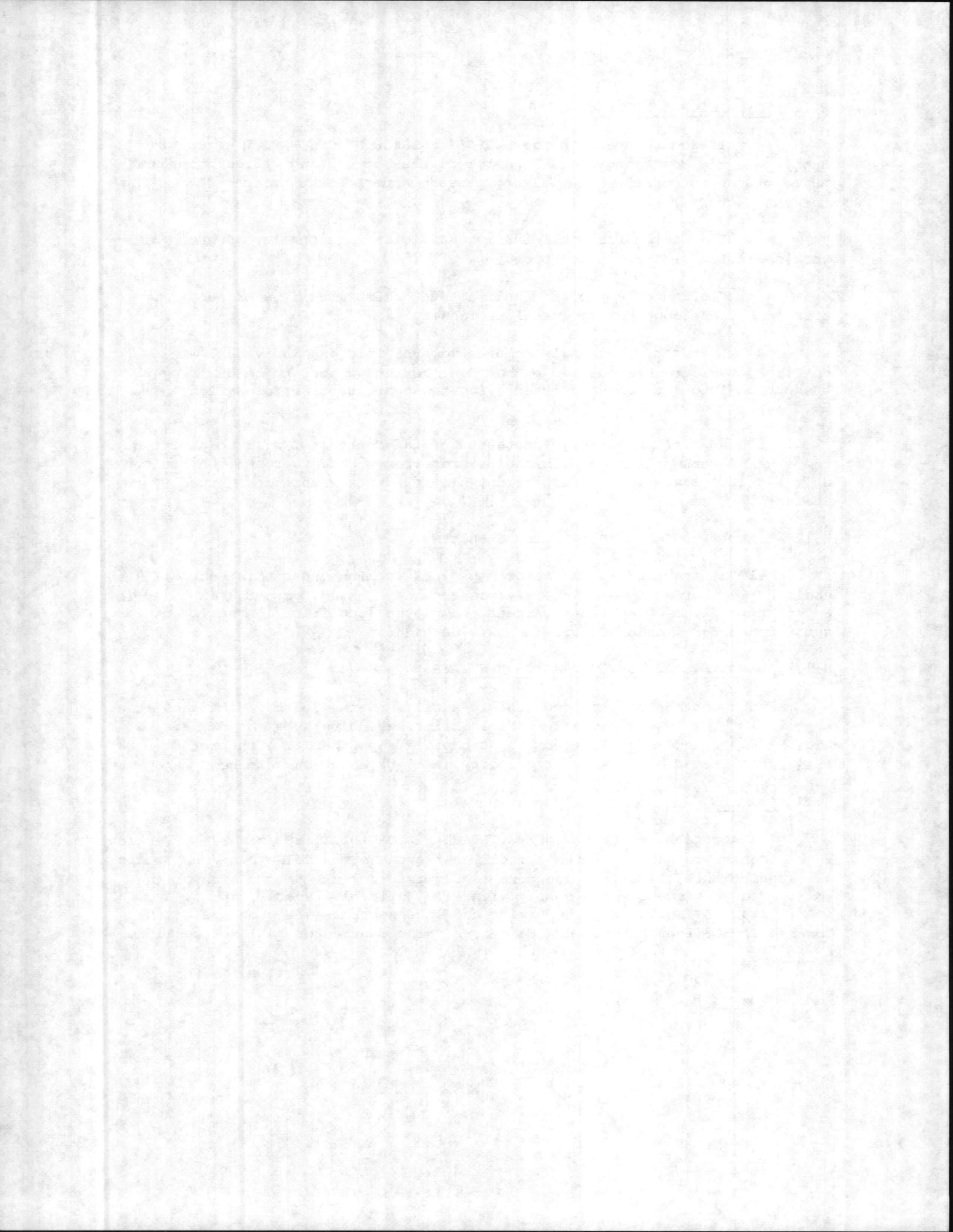
All contractor/subcontractor employees working under this contract shall be identified by a distinctive name plate, emblem, or patch attached in a prominent place on an outer garment. Employee identification shall not be substituted for station required passes or badges.

H.13 IDENTIFICATION OF CONTRACTOR VEHICLES

Each Contractor provided vehicle shall show the contractor's name so that it is clearly visible and shall at all times, display a valid state license plate and safety inspection sticker, if applicable. Contractor vehicles operated on Government property shall be maintained in good repair.

H.14 PERMITS

In accordance with the "PERMITS AND RESPONSIBILITIES" clause in Section I, the Contractor shall, without additional expense to the Government, obtain all appointments, licenses, and permits required for the prosecution of the work. The Contractor shall comply with all applicable federal, state, and local laws. Evidence of such permits and licenses shall be provided to the Contracting Officer before work commences. The Contractor shall be certified by NETA.

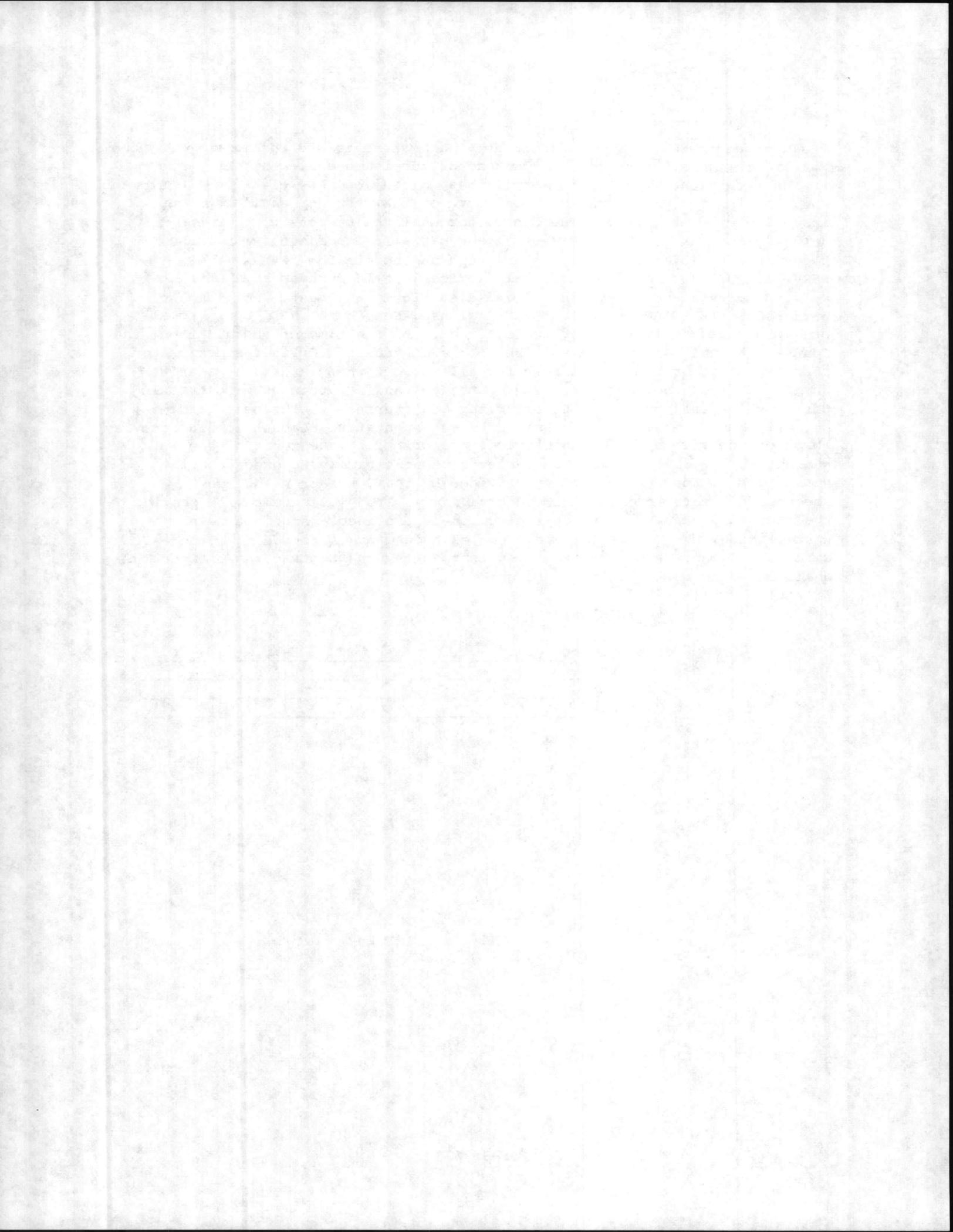


H.15 WARRANTY OF SERVICES

The Contractor shall provide a warranty for materials and workmanship for one year after installation for all Contractor furnished equipment and parts including, but not limited to, appliances, mechanical and electrical equipment and plumbing fixtures. The one year term of the warranty shall begin upon installation of the item. The Contractor shall be responsible for the delivery and installation of replacement parts in accordance with these technical specifications. This paragraph supercedes the "WARRANTY OF SERVICES" clause, Section I for all services provided under the contract related to appliances, mechanical and electrical equipment, and plumbing fixtures. "THE WARRANTY OF SERVICES" clause, Section I shall apply to all other services provided under the contract. At the time of installation, the Contractor shall obtain and furnish to the Contracting Officer's designated representative written guarantees for all the equipment and/or appliances furnished under the contract. The Contractor shall furnish the Contracting Officer, for information purposes, with each guarantee: The name, address, and telephone number of the guarantor's representative nearest to the activity location who will provide the services prescribed by the terms of the guarantee. It shall be the Contractor's responsibility to execute all warranties on both the equipment provided by the Contractor and upon Government furnished equipment under warranty. The Government will provide the necessary warranty data on the equipment provided. At the time of installation, the Contractor shall tag each item of warranted equipment with a durable, oil and water resistant tag approved by the Contracting Officer. Tag shall show the following information:

EQUIPMENT WARRANTY TAG:

Type of Equipment _____
Accepted Date _____
Warranted Until _____
Under Contract _____



H.16 INSURANCE

(a) The contractor shall procure and maintain during the entire period of performance under this contract the following minimum insurance coverage.

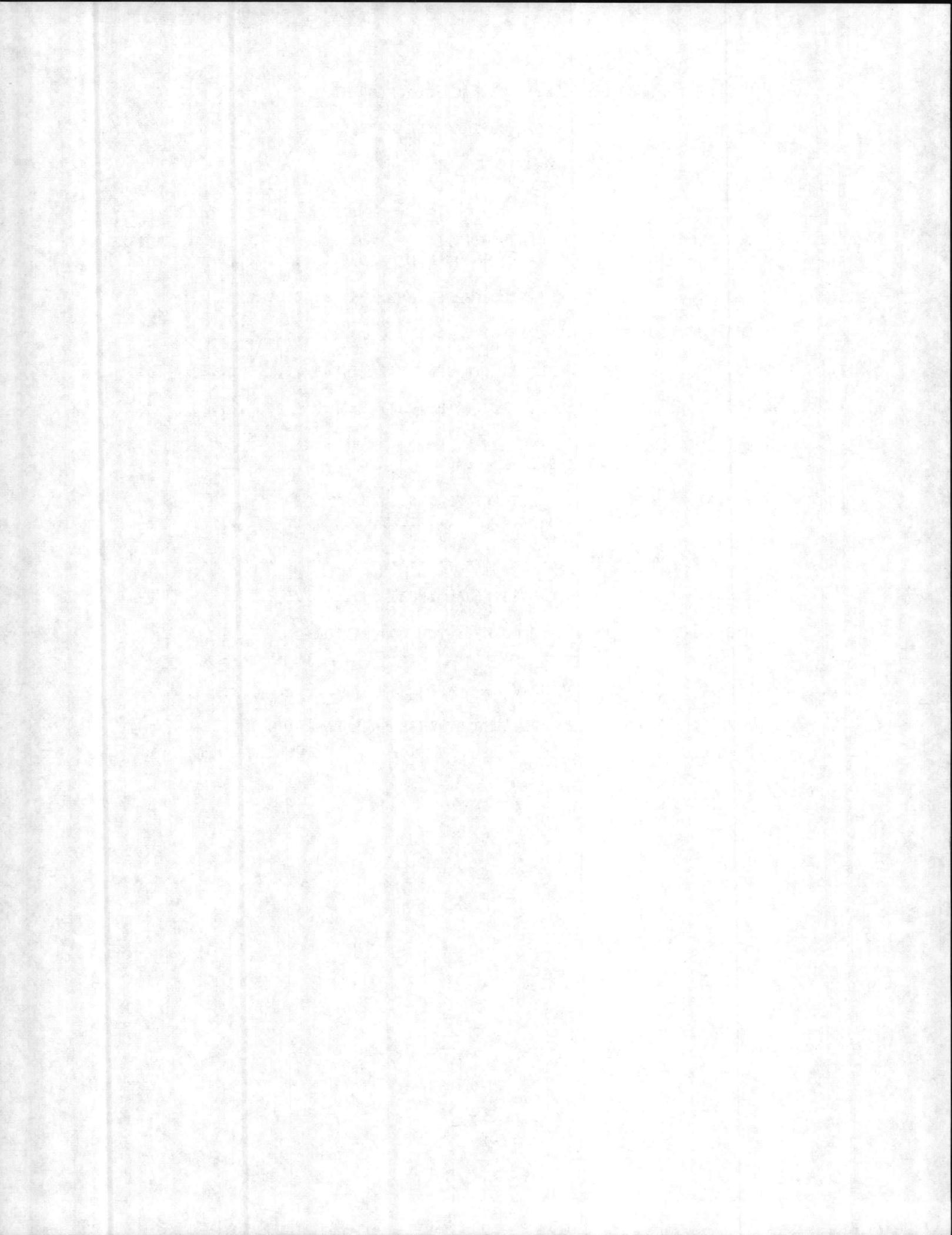
<u>Type of Insurance</u>	<u>Per Person</u>	<u>Per Accident</u>	<u>Property</u>
1. Comprehensive General Liability		\$500,000	
2. Automobile Liability	\$200,000	\$500,000	\$20,000
3. Workmen's Compensation:	As required by Federal and State worker's compensation may not be written by private carriers.		
4. Employer's liability coverage:	\$100,000, except in states where worker's compensation may not be written by private carriers.		
5. Other as required by state law.			

(b) Prior to commencement of work, the Contractor shall furnish to the Contracting Officer a certificate or written statement of the above required insurance. The policies evidencing required insurance shall contain an endorsement to the effect that cancellation or any material change in the policies adversely affecting the interests of the Government in such insurance shall not be effective for such period as may be prescribed by the laws of the State in which this contract is to be performed and in no event less than thirty (30) days after written notice thereof to the Contracting Officer.

(c) The Contractor agrees to insert the substance of this clause, including this paragraph (c), in all subcontracts hereunder.

PART II - CONTRACT CLAUSES
SECTION I: CONTRACT CLAUSES
TABLE OF CONTENTS

CLAUSE NO.	FAR REF. NO.	CLAUSE TITLE	PAGE NO.
I.1	52.202-1	DEFINITIONS (APR 1984) (MODIFIED).....	I-1
I.2	52.203-72	ANTI-KICKBACK PROCEDURES (FEB 1987).....	I-1
I.3	52.216-18	ORDERING (APR 1984)	I-3
I.4	52.216-19	DELIVERY ORDER LIMITATIONS (APR 1984)	I-3
I.5	52.216-22	INDEFINITE QUANTITY (APR 1984)	I-4
I.6	52.217-9	OPTION TO EXTEND THE TERM OF THE CONTRACT -..... SERVICES (APR 1984)	I-4
I.7	7-1903.41(a) (DAR)	SERVICE CONTRACT ACT OF 1965, AS AMENDED (JAN 1984)	I-5
I.8		RESERVED.....	I-13
I.9	52.233-2	SERVICE OF PROTEST (JAN 1985)	I-14
I.10	52.236-1	PERFORMANCE OF WORK BY THE CONTRACTOR (APR 1984)	I-14
I.11	52.246-20	WARRANTY OF SERVICES (APR 1984)	I-14
I.12	52.252-2	CLAUSES INCORPORATED BY REFERENCE (APR 1984)	I-15



I.1 FAR 52.202-1, DEFINITIONS (APR 1984) (MODIFIED)

a. Contracting Officer means a person with the authority to enter into, administer, and/or terminate contracts and make related determinations and findings. The term includes certain authorized representatives of the Contracting Officer acting within the limits of their authority as delegated by the Contracting Officer.

b. Head of the Agency. (also called "agency head") or "Secretary" means the Secretary (or Attorney General, Administrator, Governor, Chairperson, or other chief official, as appropriate) of the agency, including any deputy or assistant chief official of the agency, and, in the Department of Defense, the Under Secretary and any Assistant Secretary of the Departments of the Army, Navy, and Air Force and the Director and Deputy Director of Defense agencies, and the term "authorized representative" means any person, persons or board (other than the Contracting Officer) authorized to act for the head of the agency or Secretary.

c. Officer-in-Charge (OIC) means the officer of the Civil Engineer Corps designated by the Contracting Officer, the Commander, Naval Facilities Engineering Command, to have complete charge of and exercise full supervision and general direction of the work so far as it affects the interest of the Government, except in connection with the "Disputes" clause. For the purposes of the "Disputes" clause, the term "Contracting Officer" means the Commander, the Acting Commander, their successors, or their representatives specifically designated for this purpose.

d. Regular Working Hours. See DEFINITIONS-TECHNICAL clause in Section C.

e. Subcontracts. Except as otherwise provided in this contract, the term "subcontracts" includes, but is not limited to, purchase orders and changes and modifications to purchase orders under this contract.

I.2 FAR 52.203-72, ANTI-KICKBACK PROCEDURES (FEB 1987)

(a) Definitions.

"Kickback," as used in this clause, means any money, fee, commission, credit gift, gratuity, thing of value, or compensation of any kind which is provided, directly or indirectly, to any prime Contractor, prime Contractor employee, subcontractor, or subcontractor employee for the purpose of improperly obtaining or rewarding favorable treatment in connection with a prime contract or in connection with a subcontract relating to a prime contract.

"Person," as used in this clause, means a corporation, partnership, business association of any kind, trust, joint-stock company, or individual.

"Prime contract," as used in this clause, means a contract or contractual action entered into by the United States for the purpose of obtaining supplies, materials, equipment, or services of any kind.

"Prime Contractor employee," as used in this clause, means any officer, partner, employee, or agent of a prime Contractor.

"Subcontract," as used in this clause, means a contract or contractual action entered into by a prime Contractor or subcontractor for the purpose of obtaining supplies, materials, equipment, or services of any kind under a prime contract.

"Subcontractor," as used in this clause, (1) means any person, other than the prime Contractor, who offers to furnish or furnishes any supplies, materials, equipment, or services of any kind under a prime contract or a subcontract entered into in connection with such prime contract, and (2) includes any person who offers to furnish or furnishes general supplies to the prime Contractor or a higher tier subcontractor.

"Subcontractor employee," as used in this clause, means any officer, partner, employee, or agent of a subcontractor.

(b) The Anti-Kickback Act of 1986 (41 U.S.C. 51-58) (the Act), prohibits any person from--

(1) Providing or attempting to provide or offering to provide any kickback;

(2) Soliciting, accepting, or attempting to accept any kickback; or

(3) Including, directly or indirectly, the amount of any kickback in the contract price charged by a prime Contractor to the United States or in the contract price charged by a subcontractor to a prime Contractor or higher tier subcontractor.

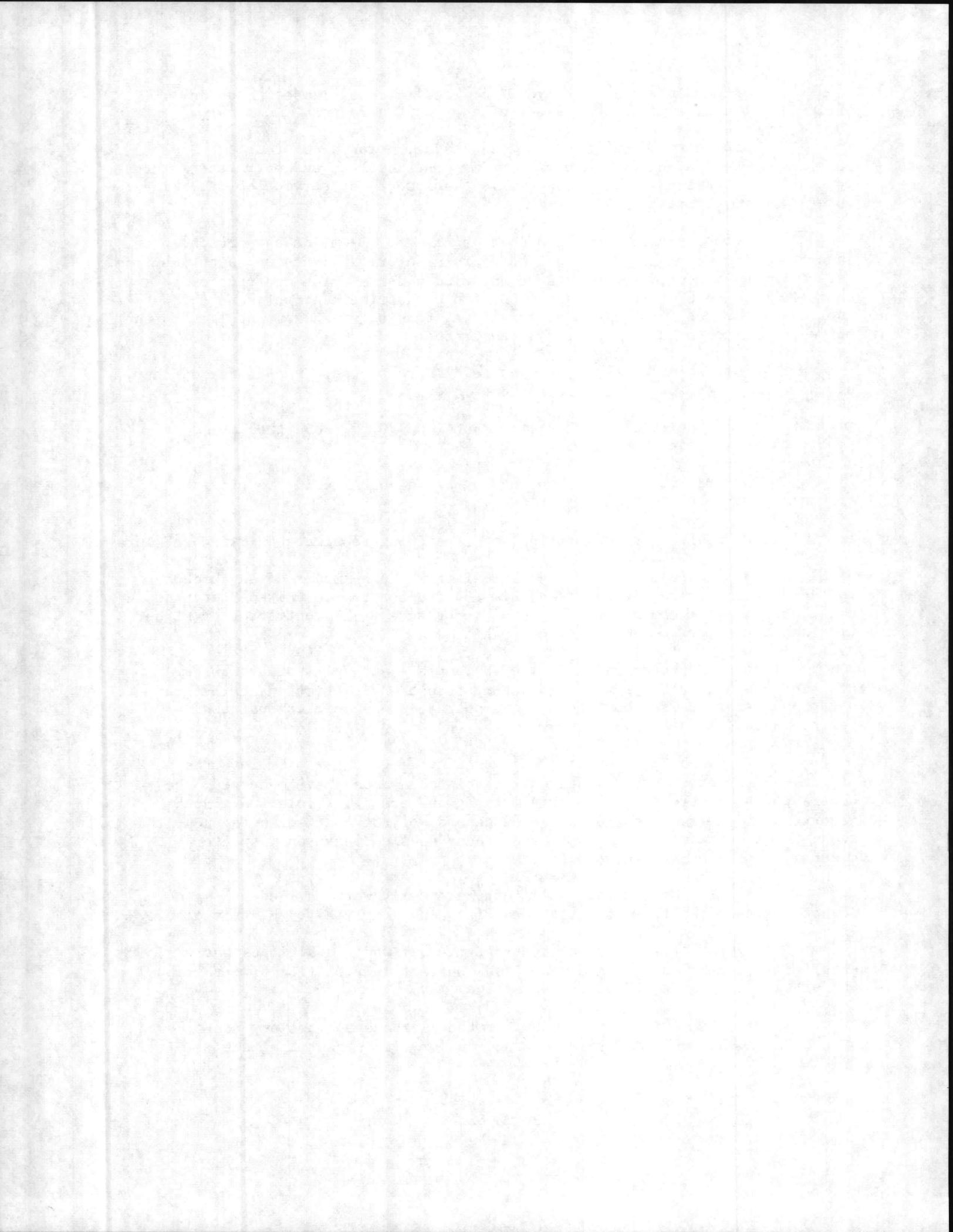
(c) (1) The Contractor shall have in place and follow reasonable procedures designed to prevent and detect possible violations described in paragraph (b) of this clause in its own operations and direct business relationships.

(2) When the Contractor has reasonable grounds to believe that a violation described in paragraph (b) of this clause may have occurred, the Contractor shall promptly report in writing the possible violation. Such reports shall be made to the inspector general of the contracting agency, the head of the contracting agency if the agency does not have an inspector general, or the Department of Justice.

(3) The Contractor shall cooperate fully with any Federal agency investigating a possible violation described in paragraph (b) of this clause.

(4) Regardless of the contract tier at which a kickback was provided, accepted, or charged under the contract in violation of paragraph (b) of this clause, the Contracting Officer may--

(i) Offset the amount of the kickback against any monies owed by the United States under this contract and/or (ii) direct that the



Contractor withhold from sums owed the subcontractor, the amount of the kickback. The Contracting Officer may order that monies withheld under subdivision (c)(4)(ii) of this clause be paid over to the Government unless the Government has already offset those monies under subdivision (c)(4)(i) of this clause. In the latter case, the Contractor shall notify the Contracting Officer when the monies are withheld.

(5) The Contractor agrees to incorporate the substance of this clause, including this subparagraph (c)(5), in all subcontracts under this contract.

I.3 FAR 52.216-18, ORDERING (APR 1984)

a. Any supplies and services to be furnished under this contract shall be ordered by issuance of delivery orders by the individuals or activities designated in the Schedule. Such orders may be issued from 15 days after award through the expiration of the contract term.

b. All delivery orders are subject to the terms and conditions of this contract. In the event of conflict between a delivery order and this contract, the contract shall control.

c. If mailed, a delivery order is considered "issued" when the Government deposits the order in the mail. Orders may be issued orally or by written telecommunications only if authorized in the Schedule.

I.4 FAR 52.216-19, DELIVERY ORDER LIMITATIONS (APR 1984)

a. Minimum order. When the Government requires supplies or services covered by this contract in an amount of less than \$100.00, the Government is not obligated to purchase, nor is the Contractor obligated to furnish, those supplies or services under the contract.

b. Maximum order.

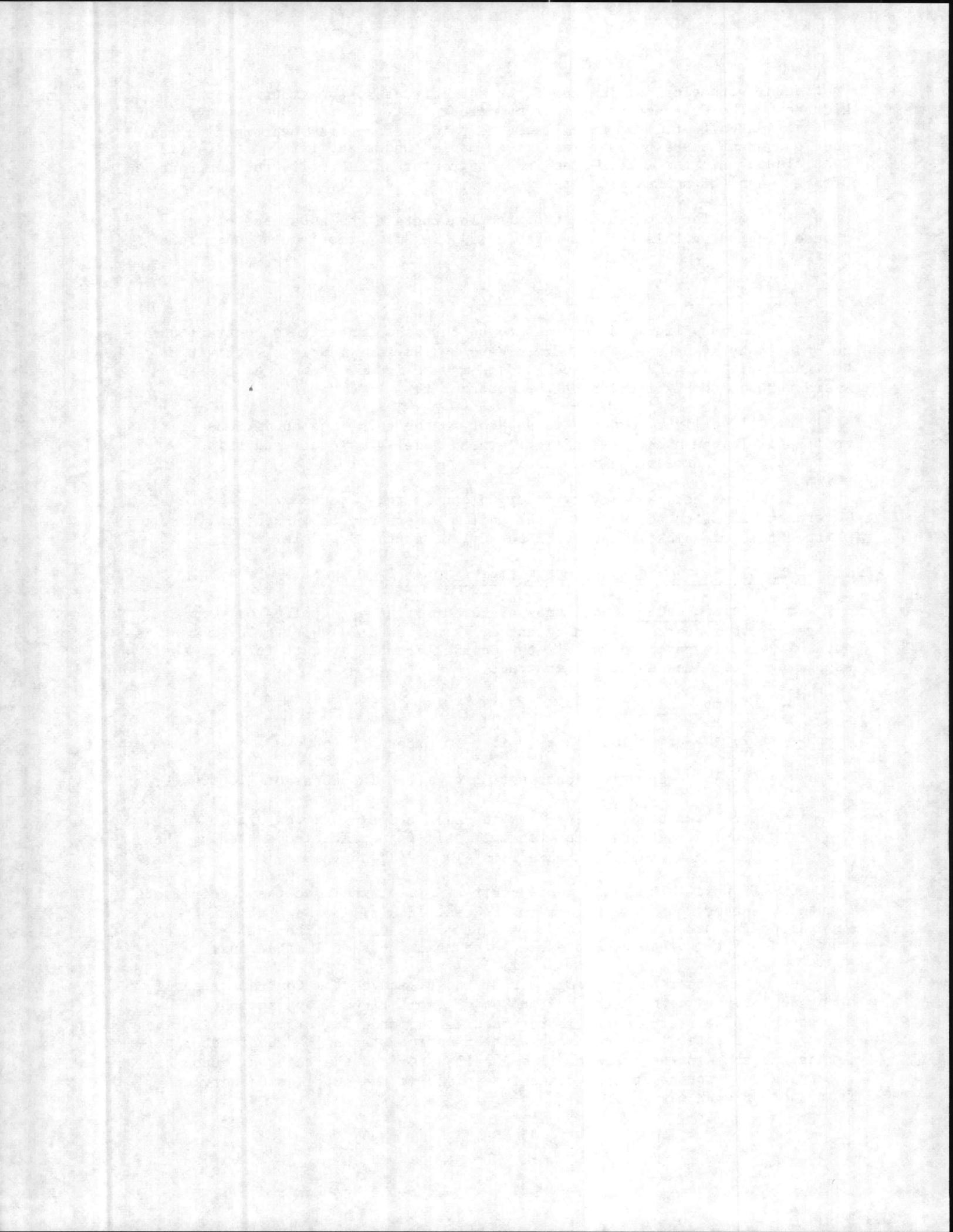
(1) Any order for a single item in excess of \$6000.00;

(2) Any order for a combination of items in excess of \$15,000.00; or

(3) A series of orders from the same ordering office within five calendar days that together call for quantities exceeding the limitation in subparagraph (1) or (2) above.

c. If this is a requirements contract (i.e., includes the Requirements clause at subsection 52.216-21 of the Federal Acquisition Regulation, the Government is not required to order a part of any one requirement from the Contractor if that requirement exceeds the maximum-order limitations.

d. Notwithstanding paragraphs b. and c. above, the Contractor shall honor any order exceeding the maximum order limitations in paragraph b., unless that order (or orders) is returned to the ordering office within five calendar days after issuance, with written notice stating the Contractor's intent not to ship the item (or items) called for and the reasons. Upon receiving this notice, the Government may acquire the supplies or services from another source.



I.5 FAR 52.216-22, INDEFINITE QUANTITY (APR 1984)

a. This is an indefinite-quantity contract for the supplies or services specified, and effective for the period stated, in the Schedule. The quantities of supplies and services specified in the Schedule are estimates only and are not purchased by this contract.

b. Delivery or performance shall be made only as authorized by orders issued in accordance with the Ordering clause. The Contractor shall furnish to the Government, when and if ordered, the supplies or services specified in the Schedule up to and including the quantity designated in the Schedule as the "maximum". The Government shall order at least the quantity of supplies or services designated in the Schedule as the "minimum".

c. Except for any limitations on quantities in the Delivery-Order Limitations clause or in the Schedule, there is no limit on the number of orders that may be issued. The Government may issue orders requiring delivery to multiple destinations or performance at multiple locations.

d. Any order issued during the effective period of this contract and not completed within that period shall be completed by the Contractor within the time specified in the order. The contract shall govern the Contractor's and Government's rights and obligations with respect to that order to the same extent as if the order were completed during the contract's effective period; provided, that the Contractor shall not be required to make any deliveries under this contract after contract completion date.

I.6 FAR 52.217-9, OPTION TO EXTEND THE TERM OF THE CONTRACT - SERVICES (APR 1984)

a. The Government may extend the term of this contract by written notice to the Contractor within the time specified in the Schedule for an additional period of one to twelve months at the prices bid, subject to labor rate adjustments that may be required by the "Fair Labor Standards Act and Service Contract Act - Price Adjustment (Multi-Year and Option Contracts)" clause of this contract; provided, that the Government shall give the Contractor a preliminary written notice of its intent to extend at least 60 days before the contract expires. The preliminary notice does not commit the Government to an extension.

b. If the Government exercises this option, the extended contract shall be considered to include this option provision.

c. The total duration of this contract, including the exercise of any options under this clause, shall not exceed 60 months.

I.7 DAR 7-1903.41(a) SERVICE CONTRACT ACT OF 1965, AS AMENDED (1984 JAN)

This contract is subject to the Service Contract Act of 1965, as amended (41 U.S.C. 351 et seq.) and is subject to the following provisions and to all other applicable provisions of the Act and regulations of the Secretary of Labor issued thereunder (29 CFR Part 4).

a. Compensation.

(1) Each service employee employed in the performance of this contract by the Contractor or any subcontractor shall be paid not less than the minimum monetary wages and shall be furnished fringe benefits in accordance with the wages and fringe benefits determined by the Secretary of Labor or authorized representative, as specified in any wage determination attached to this contract.

(2) If there is such a wage determination attached to this contract, the Contracting Officer shall require that any class of service employee which is not listed therein and which is to be employed under the contract (i.e., the work to be performed is not performed by any classification listed in the wage determination), be classified by the Contractor so as to provide for a reasonable relationship (i.e., appropriate level of skill comparison) between such unlisted classifications and the classifications listed in the wage determination. Such conforming class of employees shall be paid the monetary wages and furnished the fringe benefits as are determined pursuant to the procedures in this section.

(3) Such conforming procedure shall be initiated by the Contractor prior to the performance of contract work by such unlisted class of employee. A written report of the proposed conforming action, including information regarding the agreement or disagreement of the authorized representative of the employees involved or, where there is no authorized representative, the employees themselves, shall be submitted by the Contractor to the Contracting Officer no later than thirty (30) days after such unlisted class of employees performs any contract work. The Contracting Officer shall review the proposed action and promptly submit a report of the action, together with the agency's recommendation and all pertinent information, including the position of the Contractor and the employees, to the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, for review. The Wage and Hour Division will approve, modify, or disapprove the action or render a final determination in the event of disagreement within 30 days of receipt or will notify the Contracting Officer within 30 days of receipt that additional time is necessary.

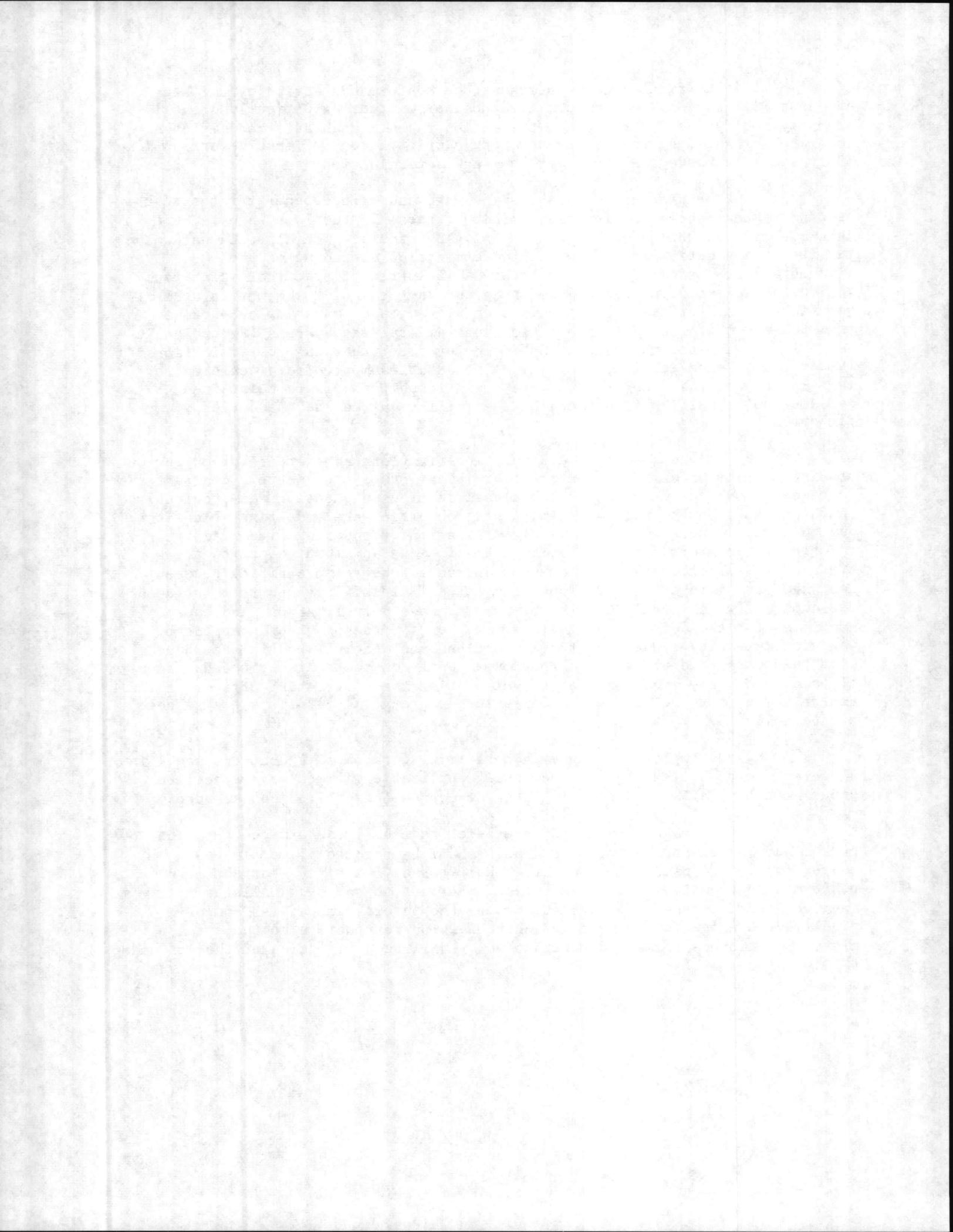
(4) The final determination of the conformance action by the Wage and Hour Division shall be transmitted to the Contracting Officer who shall promptly notify the Contractor of the action taken. Each affected employee shall be furnished by the Contractor with a written copy of such determination or it shall be posted as a part of the wage determination.

(5) The process of establishing wage and fringe benefit rates that bear a reasonable relationship to those listed in a wage determination cannot be reduced to any single formula. The approach used may vary from wage determination to wage determination depending on the circumstances. Standard wage and salary administration practices which rank various job classifications by pay grade pursuant to point schemes or other job factors may for example, be relied upon. Guidance may also be obtained from the way different jobs are rated under Federal pay systems (Federal Wage Board Pay System and the General Schedule) or from other wage determinations issued in the same locality. Basic to the establishment of any conformable wage rate(s) is the concept that a pay relationship should be maintained between job classifications based on the skill required and the duties performed.

(6) In the case of a contract modification, an exercise of an option of extension of an existing contract, or in any other case where a contractor succeeds a contract under which the classification in question was previously conformed pursuant to this section, a new conformed wage and fringe benefits may be assigned to such conformed classification by indexing (i.e., adjusting) the previous conformed rate and fringe benefits by an amount equal to the average (mean) percentage increase (or decrease, where appropriate) between the wages and fringe benefits specified for all classifications to be used on the contract which are listed in the current wage determination, and those specified for the corresponding classifications in the previously applicable wage determination. Where conforming actions are accomplished in accordance with this paragraph prior to the performance of contract work by the unlisted class of employees, the Contractor shall advise the Contracting Officer of the action taken, but the other procedures in paragraph (a)(3) of the clause need not be followed.

(7) No employee engaged in performing work on this contract shall in any event be paid less than the currently applicable minimum wage specified under section 6(a)(1) of the Fair Labor Standards Act of 1938, as amended.

(8) The wage rate and fringe benefits finally determined pursuant to paragraphs (a)(2) and (3) of this clause shall be paid to all employees performing in the classification from the first day on which contract work is performed by them in the classification. Failure to pay such unlisted employees the compensation agreed upon by the interested parties and/or finally determined by the wage and Hour Division retroactive to the date such class of employees commenced contract work shall be a violation of the Act and this contract.



(9) Upon discovery of failure to comply with paragraphs (a)(2) through (8) of this clause, the Wage and Hour Division shall make a final determination of conformed classification, wage rate, and/or fringe benefits which shall be retroactive to the date such class of employees commenced contract work.

b. Adjustment of Compensation. If, as authorized pursuant to section 4(d) of the Service Contract Act of 1965 as amended, the term of this contract is more than one (1) year, the minimum monetary wages and fringe benefits required to be paid or furnished thereunder to service employees shall be subject to adjustment after 1 year and not less often than once every 2 years, pursuant to wage determinations to be issued by the Wage and Hour Division, Employment Standards Administration of the Department of Labor as provided in such Act.

c. Obligation to Furnish Fringe Benefits. The Contractor or subcontractor may discharge the obligation to furnish fringe benefits specified in the attachment or determined conformably thereto by furnishing any equivalent combinations of bona fide fringe benefits, or by making equivalent or differential payments in cash in accordance with the applicable rules set forth in Sup part D of 29 CFR Part 4, and not otherwise.

d. Minimum Wage. In the absence of a minimum wage attachment for this contract, neither the Contractor nor any subcontractor under this contract shall pay any person performing work under the contract (regardless of whether they are service employees) less than the minimum wage specified by section 6(a)(1) of the Fair Labor Standards Act of 1938. Nothing in this provision shall relieve the contractor or any subcontractor of any other obligation under law or contract for the payment of a higher wage to any employee.

e. Successorship. If this contractor succeeds a contract, subject to the Service Contractor Act of 1965 as amended, under which substantially the same services were furnished in the same locality and service employees were paid wages and fringe benefits provided for in a collective bargaining agreement, in the absence of the minimum wage attachment for this contract setting forth such collectively bargained wage rates and fringe benefits, neither the Contractor nor any subcontractor under this contract shall pay any service employee performing any of the contract work (regardless of whether or not such employee was employed under the predecessor contract), less than the wages and fringe benefits provided for in such collective bargaining agreements, to which such employee would have been entitled if employed under the predecessor contract, including accrued wages and fringe benefits any prospective increases in wages and fringe benefits provided for under such agreement. No contractor or subcontractor under this contract may be relieved of the foregoing obligation unless the limitations of 4.1b(b) of 29 CFR Part 4 apply or unless the Secretary of Labor or his authorized representative finds, after a hearing as provided in 4.10 of 29 CFR Part 4 that the wages and/or fringe benefits provided for in such agreement are substantially at variance with those which prevail for services of a character similar in the locality, or determines, as provided in 4.11 of 29 CFR part 4, that the collective bargaining agreement applicable to service employees employed under the predecessor contract was not entered into as a result of arm's-length negotiations.

Where it is found in accordance with the review procedures provided in 29 CFR 4.10 and/or 4.11 and Parts 6 and 8 that some or all of the wages and/or fringe benefits contained in a predecessor contractor's collective bargaining agreement are substantially at variance with those which prevail for services of a character similar in the locality, and/or that the collective bargaining agreement applicable to service employees employed under the predecessor contract was not entered into as a result of arm's-length negotiations, the Department will issue a new or revised wage determination setting forth the applicable wage rates and fringe benefits. Such determination shall be made part of the contract or subcontract or subcontract, in accordance with the decision of the Administrator, the Administrative Law Judge, or the Board of Service Contract Appeals, as the case may be, irrespective of whether such issuance occurs prior to or after the award of an contract or subcontract, 53 Comp. Gen. 401 (1973). In the case of a wage determination issued solely as a result of a finding of substantial variance, such determination shall be effective as of the date of the final administrative decision.

f. Notification to Employees. The Contractor and any subcontractor under this contract shall notify each service employee commencing work on this contract of the minimum monetary wage and any fringe benefits required to be paid pursuant to this contract, or shall post the wage determination attached to this contract. The poster provided by the Department of Labor (Publication WH 1313) shall be posted in a prominent and accessible place at the worksite. Failure to comply with this requirement is a violation of section 2(a)(4) of the Act and of this contract.

g. Safe and Sanitary Working Conditions. The Contractor or subcontractor shall not permit any part of the services called for by this contract to be performed in buildings or surroundings or under working conditions provided by or under the control or supervision of the contractor or subcontractor which are unsanitary or hazardous or dangerous to the health or safety of service employees engaged to furnish these services and the Contractor or subcontractor shall comply with the safety and health standards applied under 29 CFR Part 1925.

h. Records and Employees Interviews.

(1) The Contractor and each subcontractor performing work subject to the Act shall make and maintain for three (3) years from the completion of the work records containing the information specified below for each employee subject to the Act and shall make them available for inspection and transcription by authorized representatives of the Wage and Hour Division, Employment Standards Administration of the U.S. Department of Labor.

- (a) Name and address and social security number of each employee
- (b) The correct work classification or classifications, rate or rates of monetary wages paid and fringe benefits provided, rate or rates of fringe benefit payments in lieu thereof, and total daily and weekly compensation of each employee.
- (c) The number of daily and weekly hours so worked by each employee.

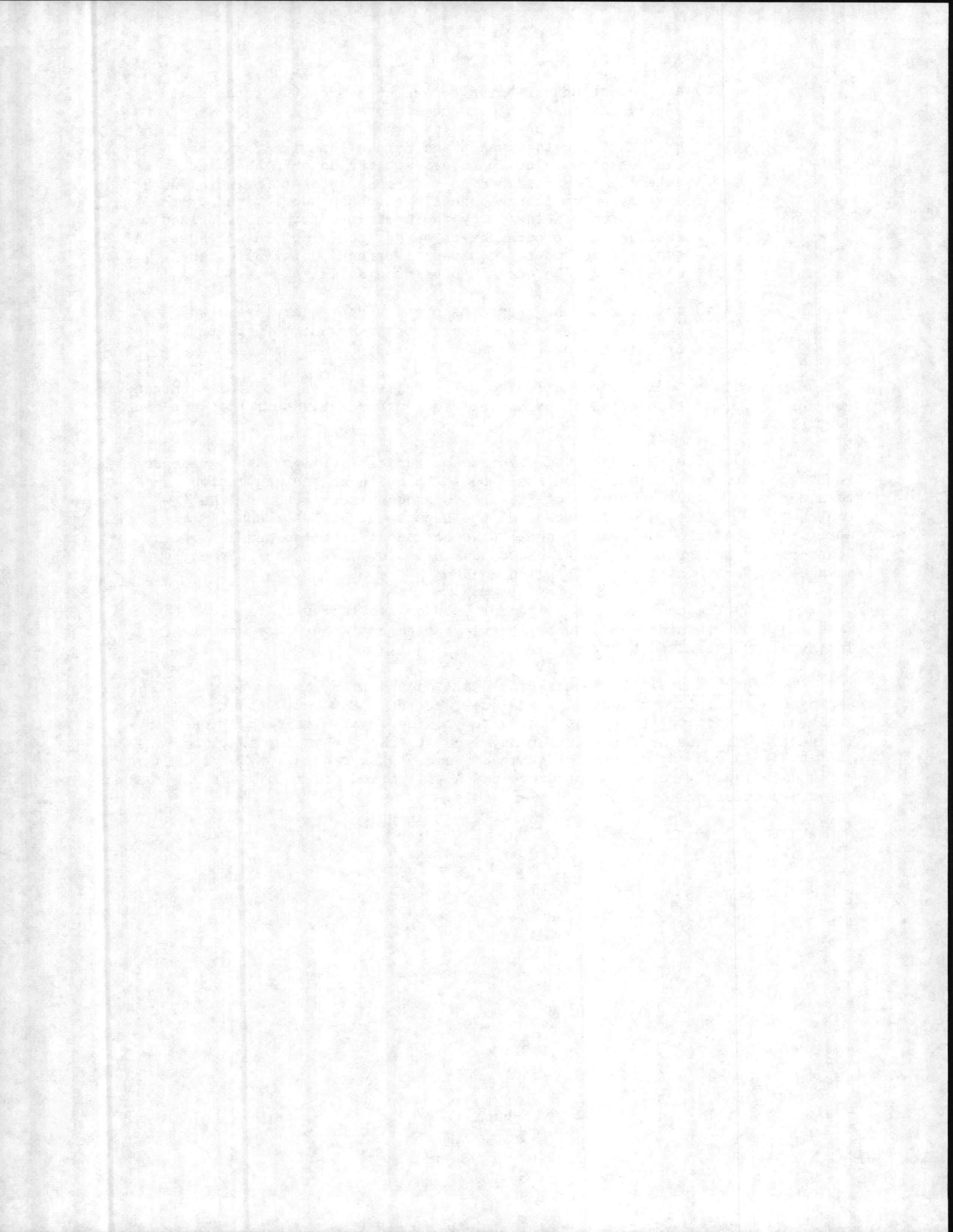
- (d) Any deductions, rebates, or refunds from the total daily or weekly compensation of each employee.
- (e) A list of monetary wages and fringe benefits for those classes of service employees not included in the wage determination attached to this contract but for which such wage rates or fringe benefits have been determined by the interested parties or by the Administrator or authorized representative pursuant to paragraph (a) of this clause. A copy of the report required by paragraph (a)(3) of the clause shall be deemed to be such a list.
- (f) Any list of the predecessor contractor's employees which had been furnished to the Contractor pursuant to paragraph (o) of this clause.

(2) The Contractor shall also make available a copy of this contract for inspection or transcription by authorized representatives of the Wage and Hour Division.

(3) Failure to make and maintain or to make available such records for inspection and transcription shall be a violation of the regulations and this contract, and in the case of failure to produce such records, the Contracting Officer, upon direction of the Department of Labor and notification of the Contractor, shall take action to cause suspension of any Contractor, shall take action to cause suspension of any further payment or advance of funds until such violation ceases.

(4) The Contractor shall permit authorized representatives of the Wage and Hour Division to conduct interviews with employees at the worksite during normal working hours.

i. Pay Periods. The contractor shall unconditionally pay to each employee subject to the Act all wages due free and clear and without subsequent deduction (except as otherwise provided by law or regulations, 29 CFR Part 4), rebate, or kickback on any account. Such payments shall be made no later than one pay period following the end of the regular pay period in which such wages were earned or accrued. A pay period under this Act may not be of any duration longer than semi-monthly.



j. Withholding of Payments and Termination of Contract. The Contracting Officer shall withhold or cause to be withheld from the Government prime Contractor under this or any other Government contract with the prime Contractor such sums as an appropriate official of the Department of Labor requests or such sums as the Contracting Officer decides may be necessary to pay underpaid employees employed by the Contractor or subcontractor. In the event of failure to pay any employees subject to the Act all or part of the wages or fringe benefits due under the Act, the agency may, after authorization or by direction of the Department of Labor and written notification to the Contractor, take action to cause suspension of any further payment or advance of funds until such violations have ceased. Additionally, any failure to comply with the requirements of these clauses relating to the Service Contract Act of 1965, may be grounds for termination of the right to proceed with the contract work. In such event, the Government may enter into other contracts or arrangements for completion of the work, charging the contractor in default with any additional cost.

k. Subcontractors. The Contractor agrees to insert these clauses in this section relating to the Service Contract Act of 1965 in all subcontracts subject to the Act. The term "Contractor" as used in these clauses in any subcontract, shall be deemed to refer to the subcontractor, except in the term "Government prime Contractor".

l. Service Employee. As used in this clause, the term "service employee" means any person engaged in the performance of this contract other than any person employed in a bona fide executive, administrative, or professional capacity, as those terms are defined in Part 541 of Title 29, Code of Federal Regulations, as of July 30, 1976, and any subsequent revision of those regulations. The term "service employee" includes all such persons regardless of any contractual relationship that may be alleged to exist between a contractor or subcontractor and such persons.

m. Federal Wage Board (Blue Collar) and General Schedule (White Collar) Wages and Fringe Benefits Applicable to Service Employee Classifications. The following statement is included in contracts pursuant to section 2(a)(5) of the Act and is for informational purposes only:

The following classes of service employees expected to be employed under the contract with the Government would be subject, if employed by the contracting agency, to the provisions of 5 U.S.C. 5341 or 5 U.S.C. 5332 and would, if so employed, be paid not less than the following rates of wages and fringe benefits:

BASIC HOURLY RATE BY CLASSIFICATION:

<u>CLASSIFICATION</u>	<u>BASIC HOURLY RATE</u>
Electrician Maintenance	\$ 10.86
Instrumentation Technician	\$ 12.64
Maintenance Trade Helper	\$ 8.12

FRINGE BENEFITS (All classifications):

- (1) Health and insurance: contribution of 5.1% of basic hourly rate.
- (2) Retirement: contribution of 7% of basic hourly rate.
- (3) Ten (10) paid holidays: New Year's Day, Martin Luther King's Birthday, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Columbus Day, Veterans Day, Thanksgiving Day, and Christmas Day.
- (4) Paid annual leave (vacation): Two (2) hours of annual leave each week for an employee with less than three (3) years of service; three (3) hours of annual leave each week for an employee with three (3) but less than fifteen (15) years of service; and, four (4) hours of annual leave each week for an employee with fifteen (15) or more years of service.

n. Collective Bargaining Agreements Applicable to Service Employees.

If wages to be paid or fringe benefits to be furnished any service employees employed by the Government prime Contractor or any subcontractor under the contract are provided for in a collective bargaining agreement which is or will be effective during any period in which the contract is being performed, the Government prime Contractor shall report such fact to the Contracting Officer, together with full information as to the application and accrual of such wages and fringe benefits, including any prospective increases, to service employees engaged in work on the contract, and a copy of the collective bargaining agreement. Such report shall be made upon commencing performance of the contract, in the case of collective bargaining agreements effective at such time, and in the case of such agreements or provisions or amendments thereof effective at a later time during the period of contract performance, such agreements shall be reported promptly after negotiation thereof.

o. Seniority List. Not less than ten (10) days prior to completion of any contract being performed at a Federal facility where service employees may be retained in the performance of the succeeding contract and subject to a wage determination which contains vacation or other benefit provisions based upon length of service with a Contractor (predecessor) or successor (4.173 of Regulations, 29 CFR Part 4), the incumbent prime Contractor shall furnish to the Contracting Officer a certified list of the names of all service employees on the Contractor's or subcontractor's payroll during the last month of contract performance. Such list shall also contain anniversary dates of employment on the contract either with the current or predecessor contractors of each such service employee. The Contracting Officer shall turn over such list to the successor contractor at the commencement of the succeeding contract.

p. Regulations Incorporated by Reference. Rulings and interpretations of the Service Contract Act of 1965, as amended, are contained in Regulations, 29 CFR Part 4 and are hereby incorporated by reference in this contract.

q. Contractor's Certificate.

(1) By entering into this contract, the Contractor (and officials thereof) certify that neither it (nor he nor she) nor any person or firm who has a substantial interest in the Contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of the sanctions imposed pursuant to Section 5 of the Act.

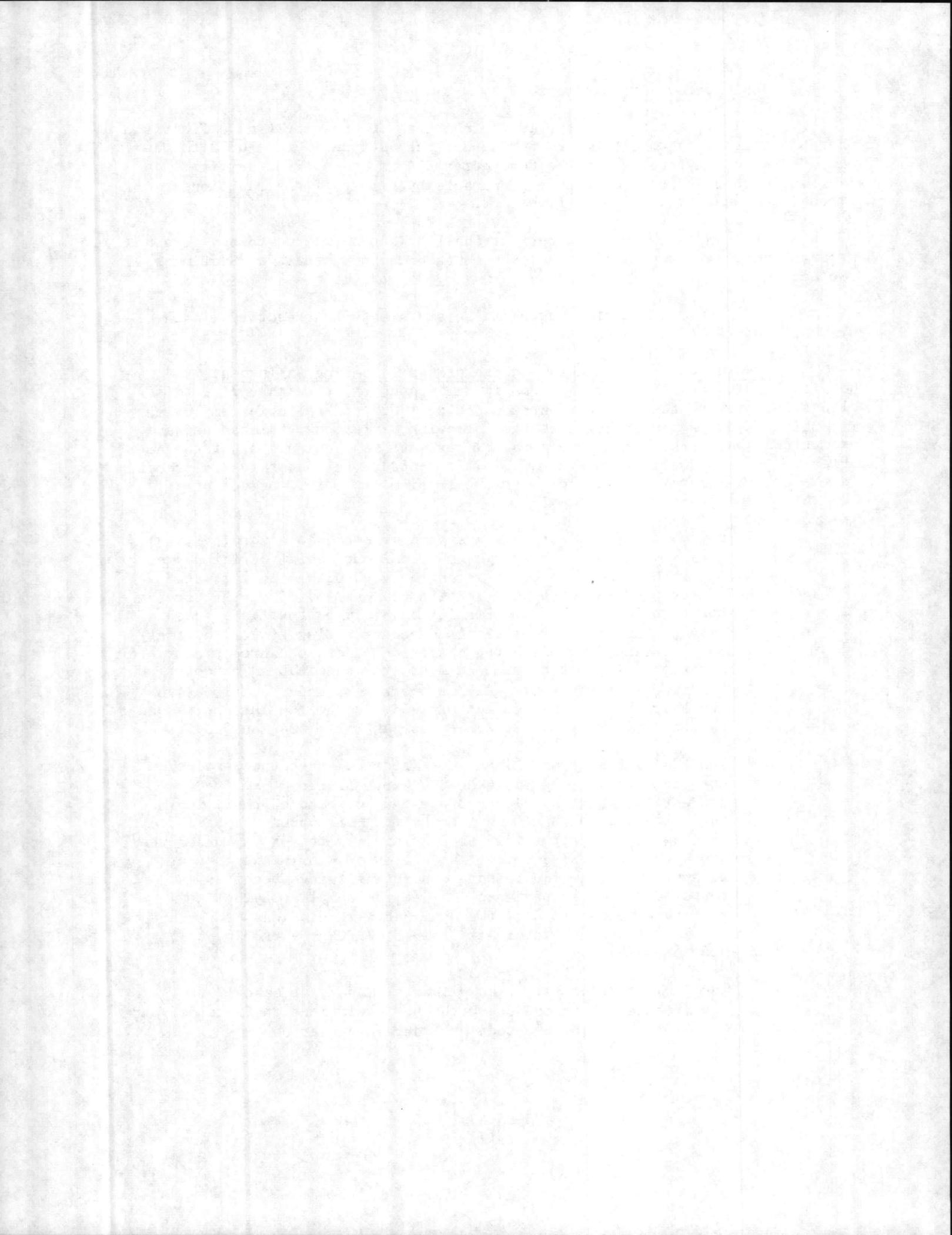
(2) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract pursuant to Section 5 of the Act.

(3) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 USC 1001.

r. Variations, Tolerances, and Exemptions Involving Employment.

Notwithstanding any of the provisions in paragraphs (a) through (p) of this clause relating to the Service Contract Act of 1965, the following employees may be employed in accordance with the following variations, tolerances, and exemptions, which the Secretary of Labor, pursuant to Section 4(b) of the Act prior to its amendment by Public Law 92-473, found to be necessary and proper in the public interest or to avoid serious impairment of the conduct of Government business:

- (1) Apprentices, student-learners, and workers whose earning capacity is impaired by age, physical, or mental deficiency or injury may be employed at wages lower than the minimum wages otherwise required by Section 2(a)(1) or 2(b)(1) of the Service Contract Act without diminishing any fringe benefits or cash payment in lieu thereof required under Section 2(a)(2) of that Act, in accordance with the conditions and procedures prescribed for the employment of student-learners, handicapped persons, and handicapped clients of sheltered workshops under Section 14 of the Fair Labor Standards Act of 1938, in the regulations issued by the Administrator (29 CFR Parts 520, 521, 524, and 525).
- (2) The Administrator will issue certificates under the Service Contract Act for the employment of apprentices, student-learners, handicapped persons, or handicapped clients of sheltered workshops not subject to the Fair Labor Standards Act of 1938, or subject to different minimum rates of pay under the two acts authorizing appropriate rates of minimum wages (but without changing requirements concerning fringe benefits or supplementary cash payments in lieu thereof), applying procedures prescribed by the applicable regulations issued under the Fair Labor Standards Act of 1938 (29 CFR Parts 520, 521, 524, and 525).
- (3) The Administrator will also withdraw, annul, or cancel such certificates in accordance with the regulations in Parts 525 and 528 of Title 29 of the Code of Federal Regulations.



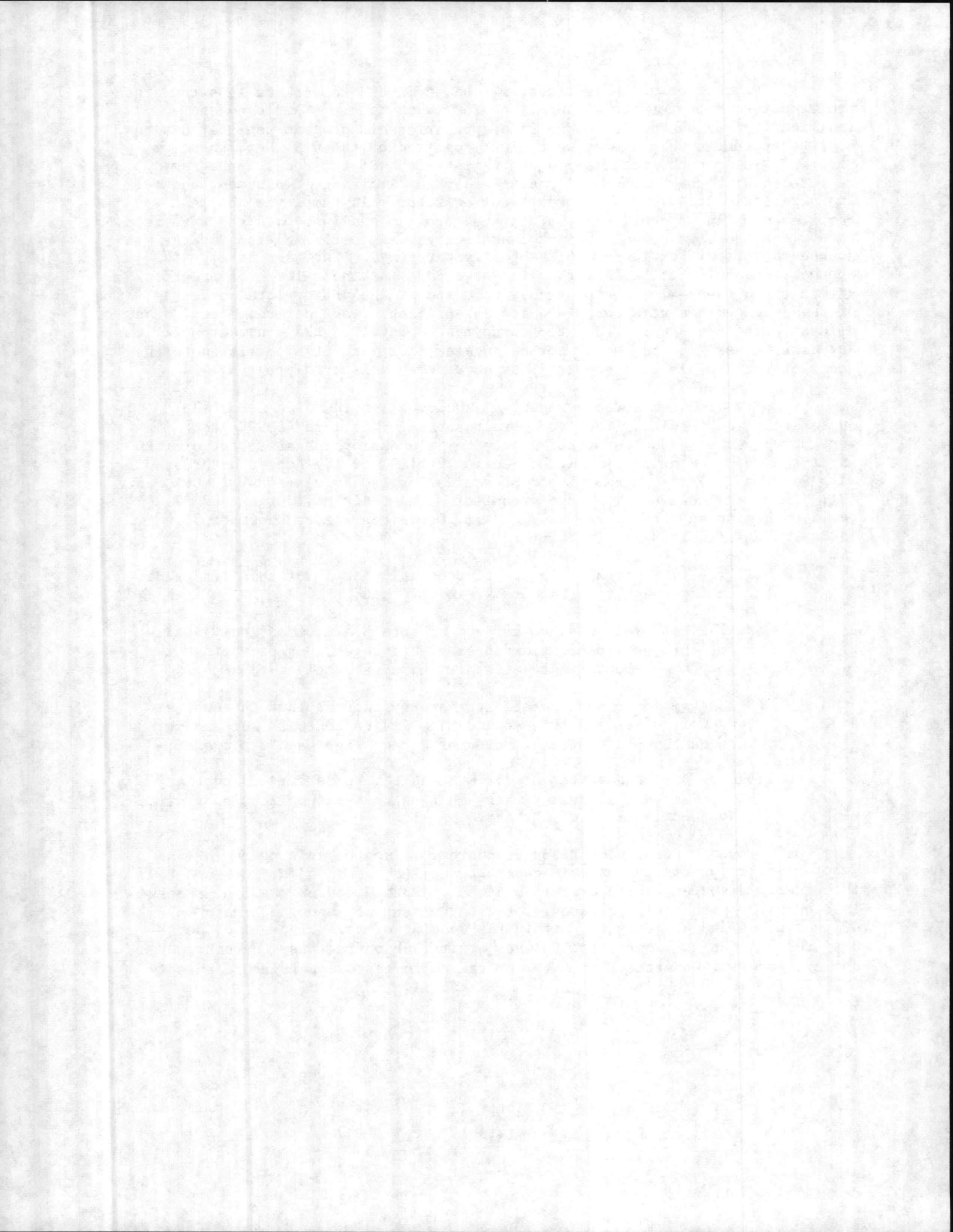
s. Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they perform when they are employed and individually registered in a bona fide apprenticeship program registered with a State Apprenticeship Agency which is recognized by the U.S. Department of Labor, or if no such recognized agency exists in a State, under a program registered with the Bureau of Apprenticeship and Training, Employment and Training Administration, U.S. Department of Labor. Any employee who is not registered as an apprentice in an approved program shall be paid the wage rate and fringe benefits contained in the applicable wage determination for the journeyman classification of work actually performed. The wage rates paid apprentices shall not be less than the wage rate for their level of progress set forth in the registered program, expressed as the appropriate percentage of the journeyman's rate contained in the applicable wage determination. The allowable ratio of apprentices to journeymen employed on the contract work in any craft classification shall not be greater than the ratio permitted to the Contractor as to his entire work force under the registered program.

t. Tips. An employee engaged in an occupation in which he or she customarily and regularly receives more than thirty dollars (\$30) a month in tips may have the amount of tips credited by the employer against the minimum wage required by Section 2(a)(1) or Section 2(b)(1) of the Act in accordance with Section 3(m) of the Fair Labor Standards Act and Regulations, 29 CFR Part 531; Provided, however, That the amount of such credit may not exceed \$1.24 per hour beginning January 1, 1980, and \$1.34 per hour after December 31, 1980. To utilize this proviso:

- (1) The employer must inform tipped employees about this tip credit allowance before the credit is utilized;
- (2) The employees must be allowed to retain all tips (individually or through a pooling arrangement and regardless of whether the employer elects to take credit for tips received);
- (3) The employer must be able to show by records that the employee receives at least the applicable Service Contract Act minimum wage through the combination of direct wages and tip credit;
- (4) The use of such tip credit must have been permitted under any predecessor collective bargaining agreement applicable by virtue of Section 4(c) of the Act.

u. Disputes Concerning Labor Standards. Disputes arising out of the labor standard provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR Parts 4.6 and 8. Disputes within the meaning of this clause include disputes between the Contractor (or any of its subcontractors) the contracting agency, the U.S. Department of Labor or the employees or their representatives.

I.8 RESERVED



I.9 FAR 52.233-2 SERVICE OF PROTEST (JAN 1985). Protests, as defined in section 33.101 of the Federal Acquisition Regulation, shall be served on the Contracting Officer by obtaining written and dated acknowledgement of receipt from OIC FSC Jacksonville, N.C. area Bldg. 1005 CLNC 28542-5000.

I.10 FAR 52.236-1, PERFORMANCE OF WORK BY THE CONTRACTOR (APR 1984). The Contractor shall perform on the site, and with its own organization, work equivalent to at least 50 percent of the total amount of work to be performed under the contract. This percentage may be reduced by a supplemental agreement to this contract if, during performing the work, the Contractor requests a reduction and the Contracting Officer determines that the reduction would be to the advantage of the Government.

I.11 FAR 52.246-20, WARRANTY OF SERVICES (APR 1984)

a. Definitions.

"Acceptance", as used in this clause, means the act of an authorized representative of the Government by which the Government assumes for itself, or as an agent of another, ownership of existing and identified supplies, or approves specific services, as partial or complete performance of the contract.¹ "Correction", as used in this clause, means the elimination of a defect.

b. Notwithstanding inspection and acceptance by the Government or any provision concerning the conclusiveness thereof, the Contractor warrants that all services performed under this contract will, at the time of acceptance, be free from defects in workmanship and conform to the requirements of this contract.

The Contracting Officer shall give written notice of any defect or nonconformance to the Contractor within five working days from date of acceptance by the Government. This notice shall state either (1) that the Contractor shall correct or reperform any defective or nonconforming services, or (2) that the Government does not require correction or reperformance.

c. If the Contractor is required to correct or reperform, it shall be at no cost to the Government, and any services corrected or reperformed by the Contractor shall be subject to this clause to the same extent as work initially performed. If the Contractor fails or refuses to correct or reperform, the Contracting Officer may, by contract or otherwise, correct or replace with similar services and charge to the Contractor the cost occasioned to the Government thereby, or make an equitable adjustment in the contract price.

d. If the Government does not require correction or reperformance, the Contracting Officer shall make an equitable adjustment in the contract price.

PART II - CONTRACT CLAUSES

SECTION I: CONTRACT CLAUSES

I.12 FAR 52.252-2, CLAUSES INCORPORATED BY REFERENCE (APR 1984)

This contract incorporates the following clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available.

a. Federal Acquisition Regulation (48 CFR Chapter 1) Clauses:

<u>FAR REF. NO.</u>	<u>CLAUSE TITLE</u>
52.203.1	OFFICIALS NOT TO BENEFIT (APR 1984)
52.203-3	GRATUITIES (APR 1984)
52.203-5	COVENANTS AGAINST CONTINGENT FEES (APR 1984)1
52.203-6	RESTRICTIONS ON SUBCONTRACTOR SALES TO THE GOVERNMENT (JUL 1985)
52.214-26	AUDIT - SEALED BIDDING (APR 1985)
52.214-27	PRICE REDUCTION FOR DEFECTIVE COST OR PRICING DATA - MODIFICATIONS - SEALED BIDDING (APR 1985)
52.214-28	SUBCONTRACTOR COST OR PRICING DATA - MODIFICATIONS - SEALED BIDDING (APR 85)
52.214-29	ORDER OF PRECEDENCE - SEALED BIDDING (JAN 1986)
52.219-8	UTILIZATION OF SMALL BUSINESS CONCERNS AND SMALL DISADVANTAGED BUSINESS CONCERNS (APR 1984)
52.219-13	UTILIZATION OF WOMEN-OWNED SMALL BUSINESS (APR 1984)
52.220-3	UTILIZATION OF LABOR SURPLUS AREA CONCERNS (APR 1984)
52.220-4	LABOR SURPLUS AREA SUBCONTRACTING PROGRAM (APR 1984)
52.222-1	NOTICE TO THE GOVERNMENT OF LABOR DISPUTES (APR 1984)

52.222-4 CONTRACT WORK HOURS AND SAFETY STANDARDS ACT-OVERTIME
COMPENSATION - (MARCH 1986)

52.222-26 EQUAL OPPORTUNITY (APR 1984)

52.222-28 EQUAL OPPORTUNITY PREAMWARD CLEARANCE OF SUBCONTRACTORS (APR 1984)

52.222-35 AFFIRMATIVE ACTION FOR SPECIAL DISABLED AND VIETNAM ERA VETERANS
(APR 1984)

52.222-36 AFFIRMATIVE ACTION FOR HANDICAPPED WORKERS (APR 1984)

52.223-2 CLEAN AIR AND WATER (APR 1984)

52.224-1 PRIVACY ACT (APR 1984)

52.225-3 BUY AMERICAN ACT - SUPPLIES (APR 1984)

52.228-5 INSURANCE - WORK ON GOVERNMENT INSTALLATION (APR 1984)

52.229-3 FEDERAL, STATE, AND LOCAL TAXES (APR 1984)

52.229-5 TAXES - CONTRACTS PERFORMED IN THE U.S. POSSESSIONS OR
PUERTO RICO (APR 1984)

52.232-1 PAYMENTS (APR 1984)

52.232-8 DISCOUNTS FOR PROMPT PAYMENT (JUL 1985)

52.232-11 EXTRAS (APR 1984)

52.232-17 INTEREST (APR 1984)

52.232-18 AVAILABILITY OF FUNDS (APR 1984)

52.232-23 ASSIGNMENT OF CLAIMS (APR 1984)

52.233-1 DISPUTES (APR 1984)

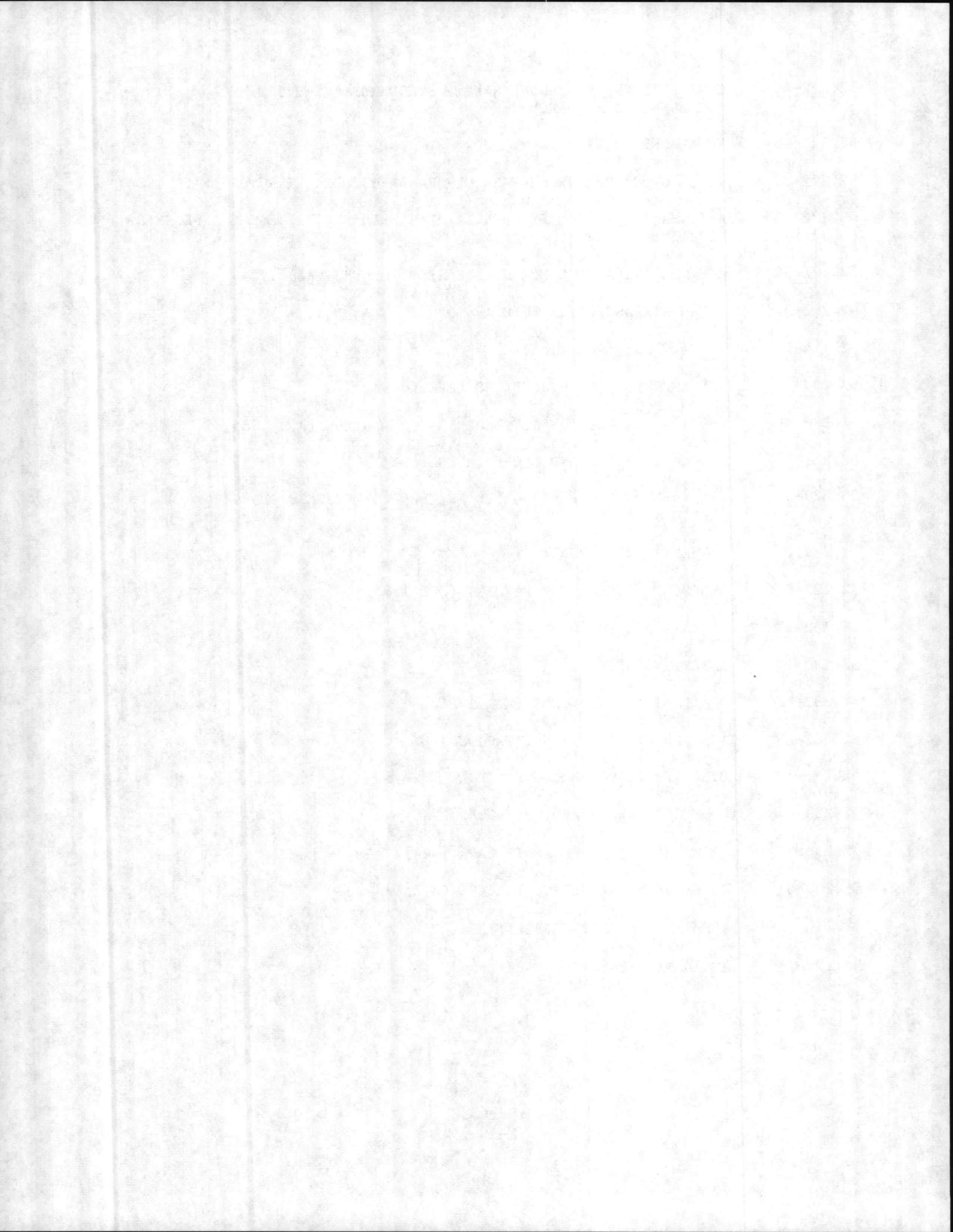
52.233-3 PROTEST AFTER AWARD (JUN 1985)

52.236.5 MATERIAL AND WORKMANSHIP (APR 1984)

52.236-6 SUPERINTENDANCE BY CONTRACTOR (APR 1984)

52.236-7 PERMITS AND RESPONSIBILITIES (APR 1984)

52.236-13 ACCIDENT PREVENTION (APR 1984)



- 52-237-2 PROTECTION OF GOVERNMENT BUILDINGS, EQUIPMENT, AND VEGETATION
(APR 1984)
- 52.237-3 CONTINUITY OF SERVICES (APR 1984)
- 52.243-1 CHANGES - FIXED PRICES (APR 1984) (ALTERNATE II)
- 52.245-2 GOVERNMENT PROPERTY (FIXED-PRICE CONTRACTS) (APR 1984)
- 52.248-1 VALUE ENGINEERING (APR 1984)

- 52.249-2 TERMINATION FOR CONVENIENCE OF THE GOVERNMENT (FIXED-PRICE)
(APR 1984)

- 52.249-8 DEFAULT (FIXED PRICE SUPPLY AND SERVICE) (APR 1984)

PART III - LIST OF DOCUMENTS, EXHIBITS, AND OTHER ATTACHMENTS

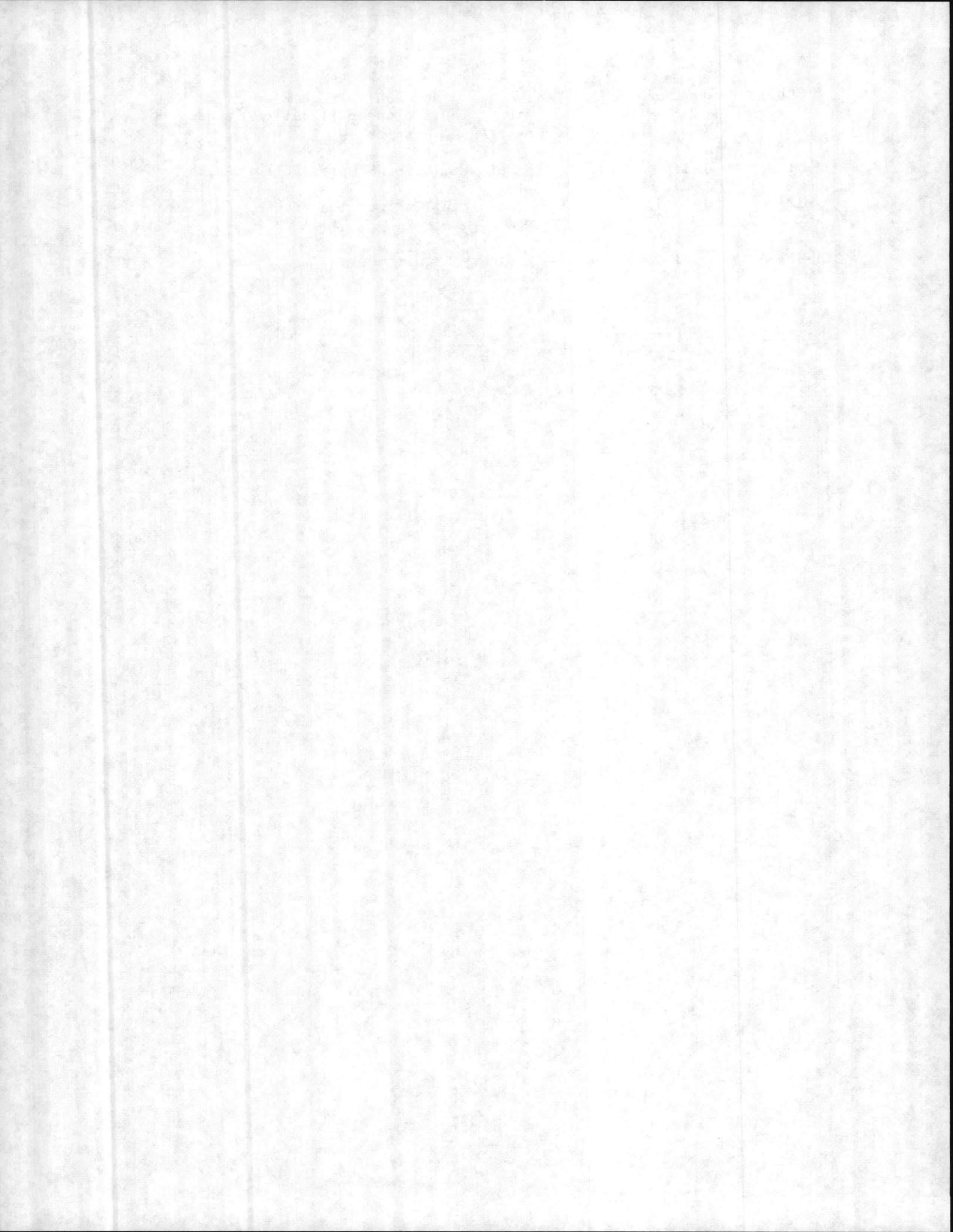
SECTION J: LIST OF ATTACHMENTS

The documents listed below are physically included in this Solicitation package:

TABLE OF CONTENTS, ATTACHMENTS

<u>ATTACHMENT NUMBER</u>	<u>PAGE NUMBER</u>	<u>TITLE</u>
J-1	J-1	Wage Determination (insert number)
J-2	J-2	Work Authorization
J-3	J-3-4	SF-30, Amendment of Solicitation/ Modification to Contract
J-4	J-5	SF-1420, Performance Evaluation
J-B1	J-6	List of Engineering Performance Standards Manuals
J-C1	J-7	Contract Submittal List
J-C2	J-8	Applicable Codes and Publications
J-C3	J-9	Single Line Diagram, Naval Hospital (Plate No.3)
J-C4	J-10	Single Line Diagram, Naval Hospital (Plate No.2)
J-C5	J-11-24	Certified Reports
J-C5a.	J-12-14	Transformer
J-C5b.	J-15-16	Medium Voltage Breaker
J-C5c.	J-17-18	Voltage Regulator
J-C5d.	J-19-21	Oil Circuit Breaker
J-C5e.	J-22-24	Pole-Mounted Recloser
J-C6	J-25-32	Equipment List
J-C6a.	J-25-30	Medium-Voltage Electrical Distribution System (Requiring Testing)

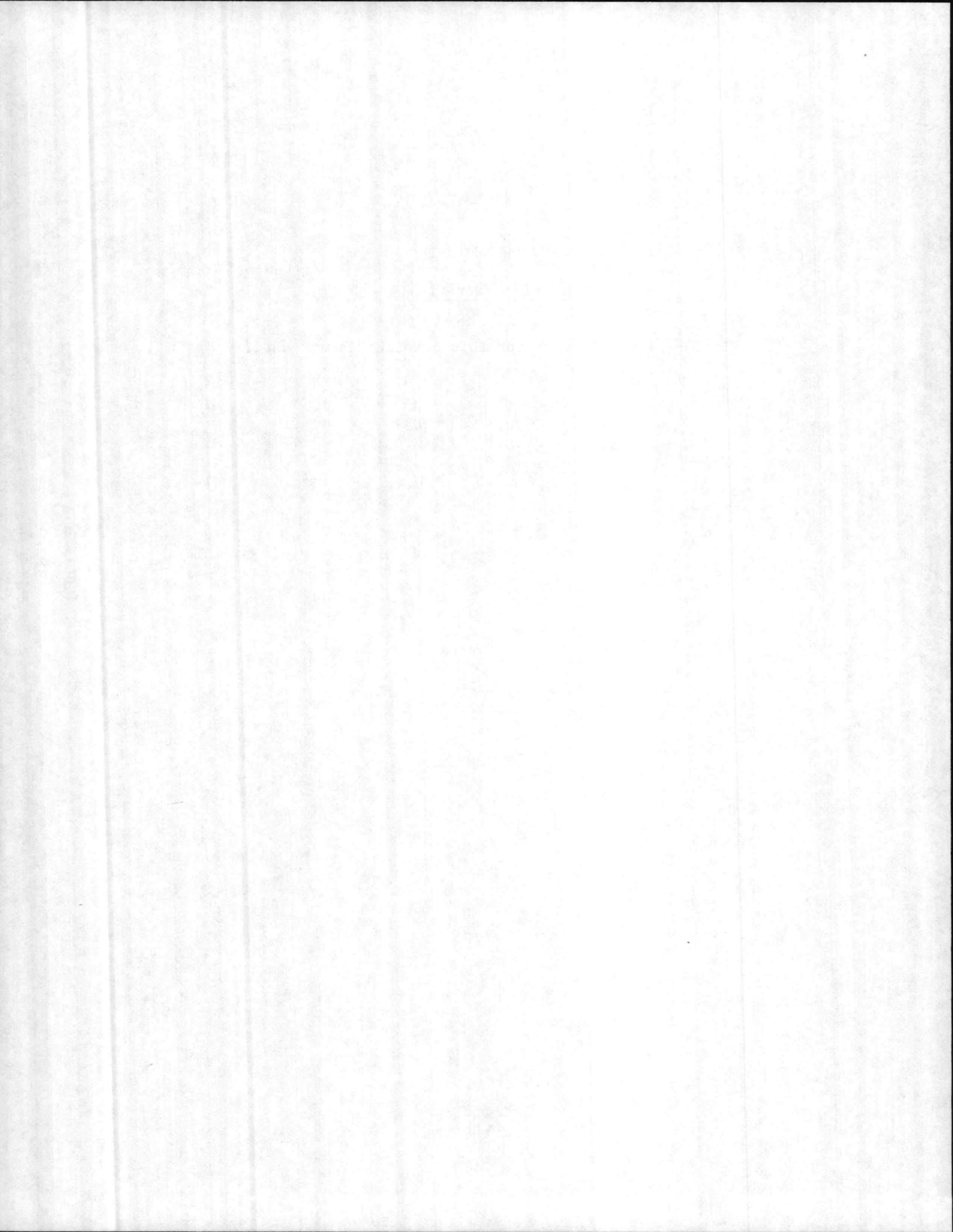
J-C6b.	J-31-32	Medium- and Low-Voltage Electrical Distribution and Utilization Systems at Naval Hospital
J-G1	J-33	Delivery Order Sample, DD Form 1155
J-G2	J-34-35	Invoicing Instructions
J-H1	J-36	Safety Requirements



ATTACHMENT J-1

Wage Determination

The Wage Determination for this contract is attached.



U.S. DEPARTMENT OF LABOR
 EMPLOYMENT STANDARDS ADMINISTRATION
 WAGE AND HOUR DIVISION
 WASHINGTON, D.C. 20210

REGISTER OF WAGE DETERMINATIONS UNDER
 THE SERVICE CONTRACT ACT
 By direction of the Secretary of Labor

Paula V. Smith
 Paula V. Smith

Administrator

LOCALITY	State: North Carolina - South Carolina	NC-SC
	Area: NC: Beaufort (013), Brunswick (019), Carteret (031), Columbus (047), Craven (049), Dare (055), Hyde (095), Jones (103), Lenoir (107), Martin (117), New Hanover (129), Onslow (133), Pamlico (137), Pender (141), & Washington (187) SC: Horry (051).	
Wage determination number: 86-870 (Rev.1)		Date: 11/24/86

05
 85
 5-1a

Class of service employee

Minimum hourly wage

Fringe benefit payments

Health & Welfare

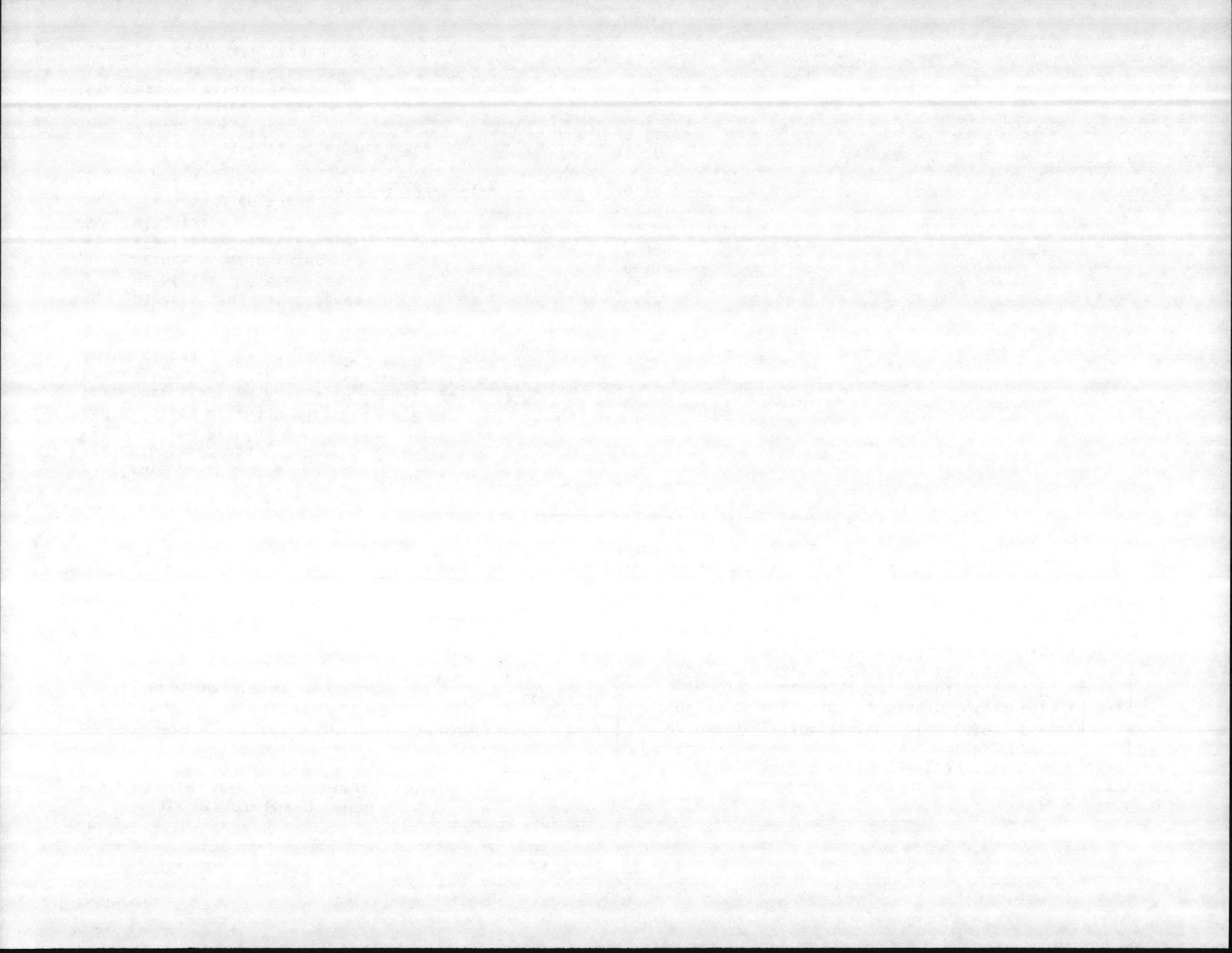
Vacation

Holiday

Other

Furniture Maintenance and Repair, Machine Tool Operation and Repair Occupations, Material Handling and Packing Occupations, Mechanics and Maintenance and Repair Occupations, Transportation and Mobile Equipment Operation Occupations and Plant and System Operation Occupations:

- | | |
|--|-------|
| 1. Electrician, maintenance | 10.30 |
| 2. Machinist, maintenance | 10.30 |
| 3. Mechanic, maintenance (machinery) | 10.30 |
| 4. Pipefitter, maintenance | 10.30 |
| 5. Millwright | 10.30 |
| 6. Stationary engineer | 10.30 |
| 7. Heating/refrigeration/air conditioning mechanic | 10.30 |
| 8. Sheet-metal worker, maintenance | 10.30 |
| 9. Welder, maintenance | 10.30 |
| 10. Heavy equipment mechanic | 10.30 |
| 11. Mason, maintenance | 10.30 |
| 12. Carpenter, maintenance | 9.79 |
| 13. Painter, maintenance | 9.79 |



U.S. DEPARTMENT OF LABOR
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Wage determination number: 86-870 (Rev. 1)		Date: 11/24/86

05
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 9116

Class of service employee

Minimum hourly wage

Fringe benefit payments

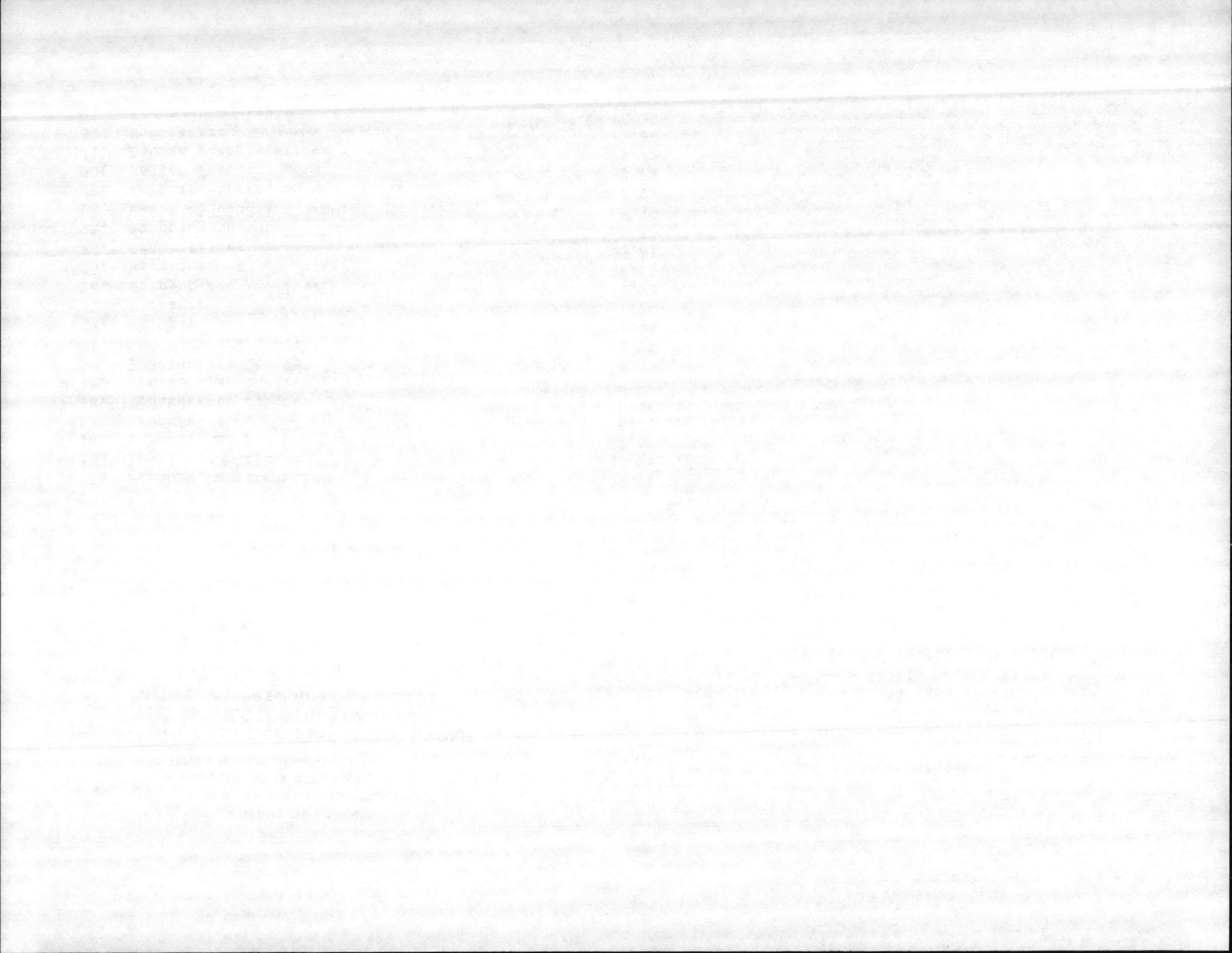
Health & Welfare

Vacation

Holiday

Other

14. Plumber, maintenance	9.79
15. Appliance mechanic	9.26
16. Helper, maintenance trades	7.69
17. Laborer	6.63
18. Truckdriver (light)	8.26
19. Truckdriver (medium)	8.86
20. Truckdriver (heavy)	9.45
21. Truckdriver, tractor-trailer	9.95
22. Shipper	7.24
23. Receiver	7.24
24. Shipper and receiver	7.24
25. Warehouseman	6.25
26. Order filler	6.41
27. Shipping packer	6.77
28. Material handling laborer	6.25
29. Forklift operator	7.24
30. Boiler Tender	9.79
31. Sewage plant operator	9.79
32. Upholsterer, Furniture	9.26
33. Aircraft mechanic	10.30



U.S. DEPARTMENT OF LABOR
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REGISTER OF WAGE DETERMINATIONS UNDER
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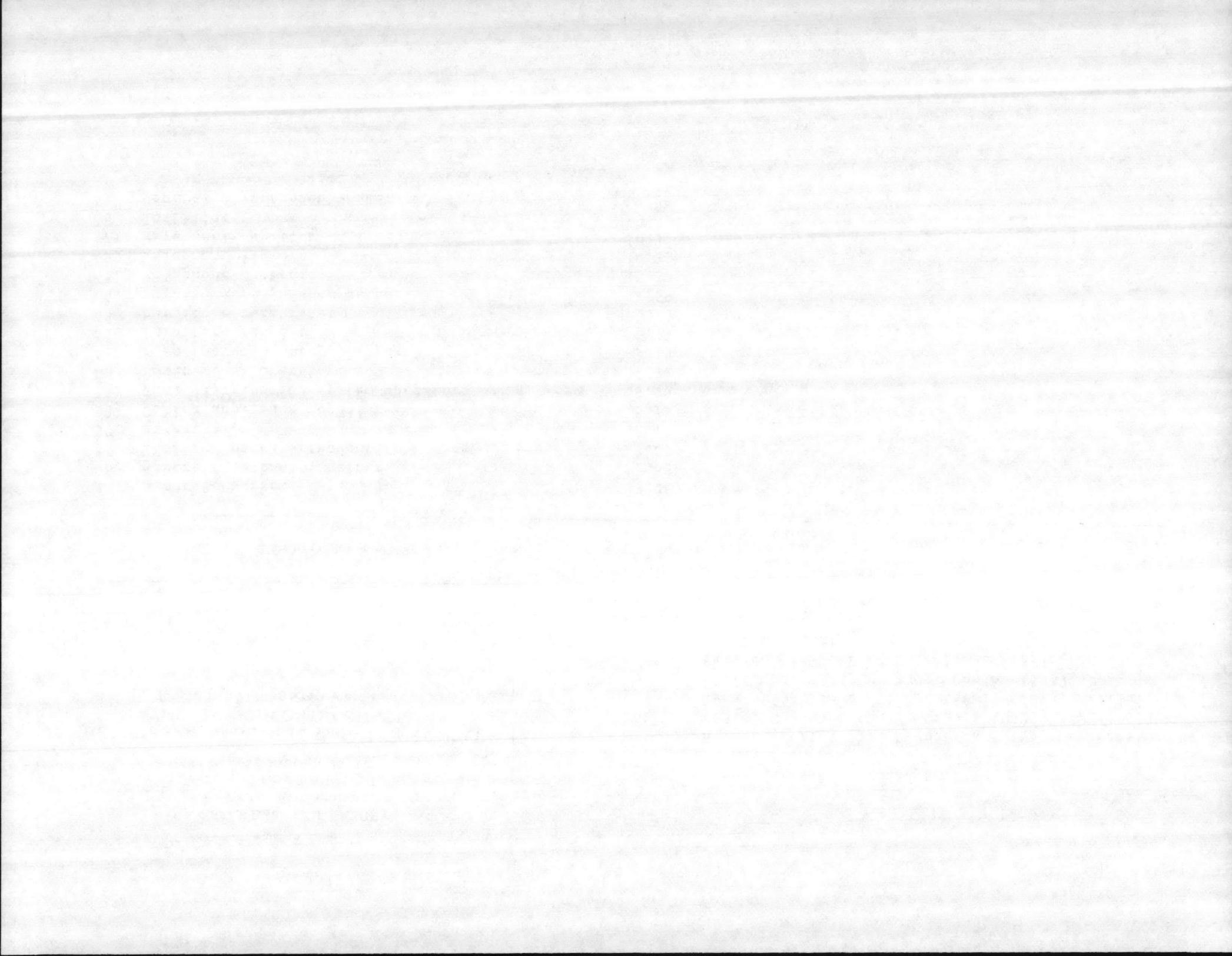
Paula V. Smith
 Paula V. Smith

Administrator

LOCALITY	State:	North Carolina - South Carolina	NC-SC
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Wage determination number:		86-870 (Rev. 1)	Date 11/24/86

05
 85
 6332
 J-1C

Class of service employee	Minimum hourly wage	Fringe benefit payments			
		Health & Welfare	Vacation	Holiday	Other
34. Aircraft worker	9.26				
35. Aircraft mechanic, helper	7.69				
36. Tool and parts attendant	7.69				
37. Rigger	9.79				
38. Office appliance repairer	8.75				
39. Fuel distribution system operator	9.26				
40. Power-truck operator	7.24				
41. Electrostatic spray painter	9.79				
42. Furniture handler	7.69				
43. Furniture refinisher	9.79				
44. Furniture refinisher helper	7.69				
45. Telephone mechanic	10.30				
46. Telephone lineman	10.30				
47. Wire cable splicer	10.30				
48. Installer	10.82				
49. General maintenance worker	9.26				



U.S. DEPARTMENT OF LABOR
 EMPLOYMENT STANDARDS ADMINISTRATION
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 WASHINGTON, D.C. 20210

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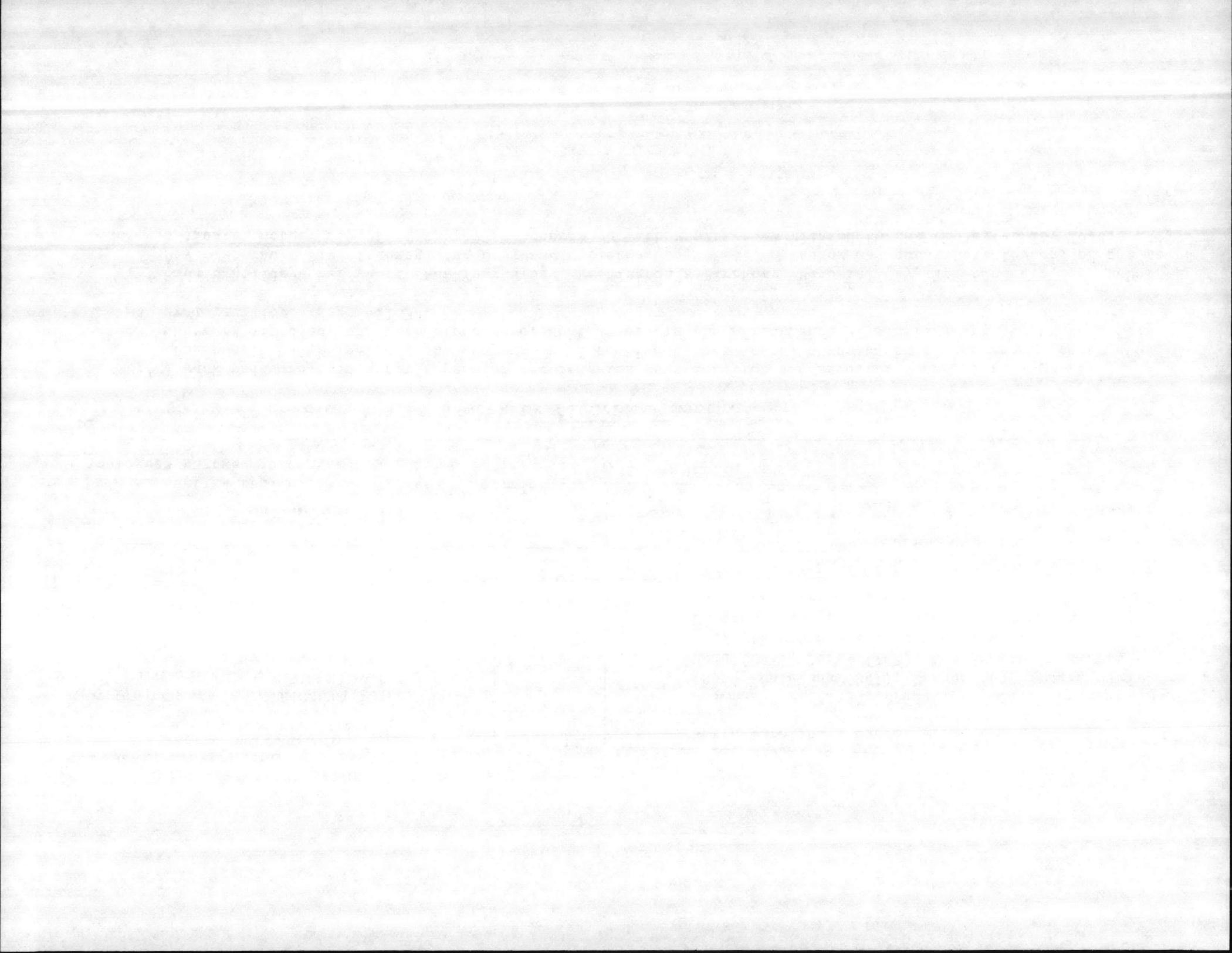
Administrator

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Wage determination number:		86-870 (Rev.1)	Date: 11/24/86

5-19
 85
 85
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Class of service employee	Minimum hourly wage	Fringe benefit payments			
		Health & Welfare	Vacation	Holiday	Other
Fringe benefits applicable to classes of service employees engaged in contract performance:		1/	2/	3/	

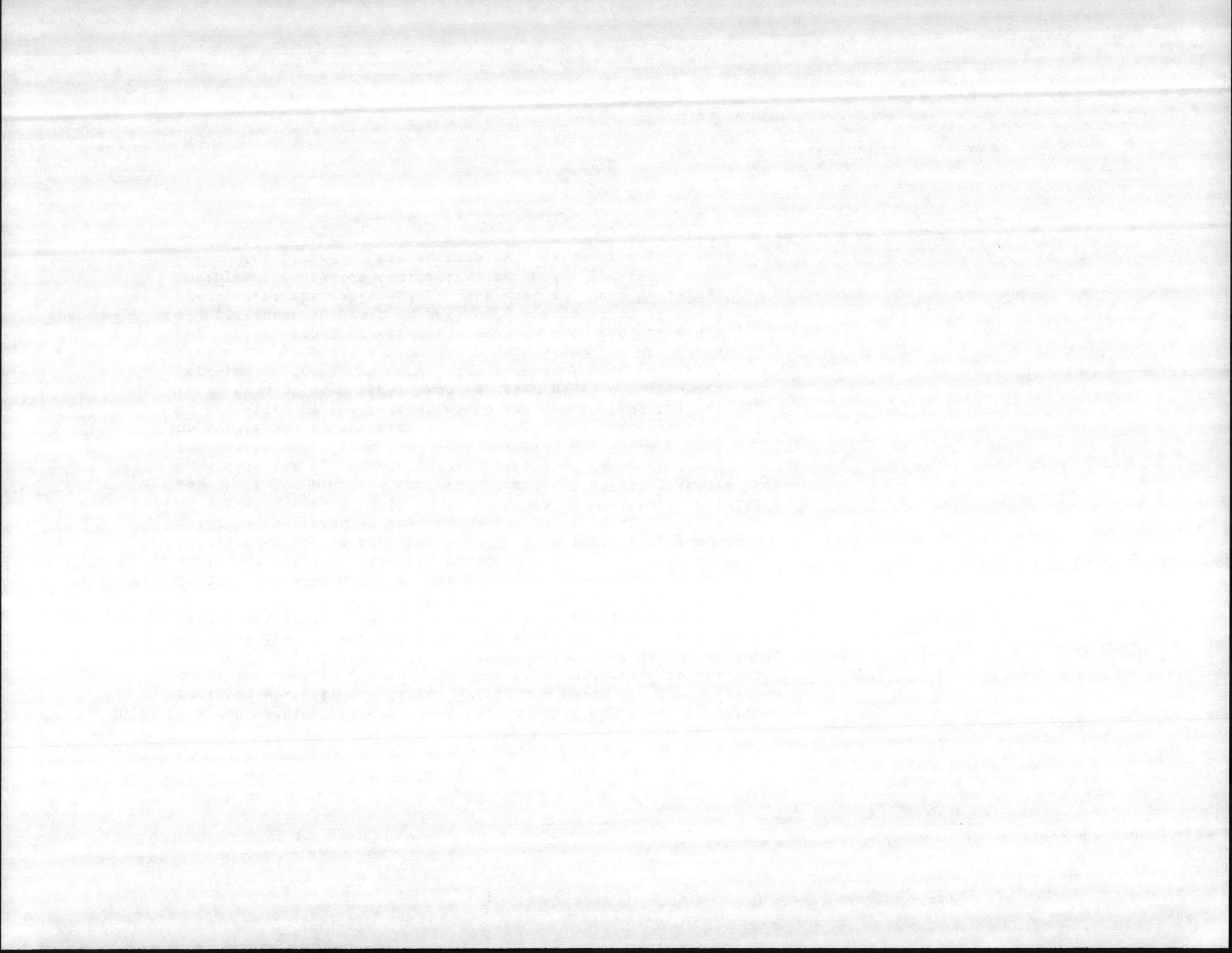
- 1/ \$0.59 an hour or \$23.60 a week or \$102.26 a month.
- 2/ 1 week paid vacation after 1 year of service with contractor or successor; 2 weeks after 3 years. Length of service includes the whole span of continuous service with the present (successor) contractor, wherever employed, and with predecessor contractors in the performance of similar work at the same Federal facility. (Reg. 4.173).
- 3/ 8 paid holidays per year: New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, and Christmas Day. (A contractor may substitute for any of the named holidays another day off with pay in accordance with a plan communicated to the employees involved.)



NOTE: The contracting officer shall require that any class of service employee which is not listed herein and which is to be employed under the contract (i.e., the work to be performed is not performed by any classification listed in the wage determination), be classified by the contractor so as to provide a reasonable relationship (i.e., appropriate level of skill comparison) between such unlisted classifications and the classifications listed in the wage determination. Such conformed class of employees shall be paid the monetary wages and furnished the fringe benefits as are determined. Such conforming procedure shall be initiated by the contractor prior to the performance of contract work by such unlisted class of employee. A written report of the proposed conforming action, including information regarding the agreement or disagreement of the authorized representative of the employees involved or, where there is no authorized representative, the employees themselves, shall be submitted by the contractor to the contracting officer no later than 30 days after such unlisted class of employees performs any contract work. The contracting officer shall review the proposed action and promptly submit a report of the action, together with the agency's recommendation and all pertinent information including the position of the contractor and the employees, to the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, for review. (See section 4.6 (b)(2) of Regulations 29 CFR 4).

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J-1e



Uniform Allowance: If employees are required to wear uniforms in the performance of this contract (either by the terms of the Government contract, by the employer, by state or local law, etc.), the cost of furnishing such uniforms and maintaining (by laundering or dry cleaning) such uniforms is an expense that may not be borne by an employee where such cost reduces the hourly rate below that required by the wage determination. The Department of Labor will accept payment in accordance with the following standards as compliance:

The contractor or subcontractor is required to furnish all employees with an adequate number of uniforms without cost or to reimburse employees for the actual cost of the uniforms. In addition, where uniform cleaning and maintenance is made the responsibility of the employee, all contractors and subcontractors subject to this wage determination shall (in the absence of a bona fide collective bargaining agreement providing for a different amount, or the furnishing of contrary affirmative proof as to actual cost), reimburse all employees for such cleaning and maintenance at a rate of \$3.35 a week (or 67 cents a day). However, in those instances where the uniforms furnished are made of "wash and wear" materials, may be routinely washed and dried with other personal garments, and do not require any special treatment such as dry cleaning, daily washing, or commercial laundering in order to meet the cleanliness or appearance standards set by the terms of the Government contract, by the contractor, by law, or by the nature of the work, there is no requirement that employees be reimbursed for uniform maintenance costs.

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J-14



U.S. DEPARTMENT OF LABOR
 EMPLOYMENT STANDARDS ADMINISTRATION
 WAGE AND HOUR DIVISION
 WASHINGTON, D.C. 20210

REGISTER OF WAGE DETERMINATIONS UNDER
 THE SERVICE CONTRACT ACT
 By direction of the Secretary of Labor

Paula V. Smith
 Paula V. Smith

Administrator

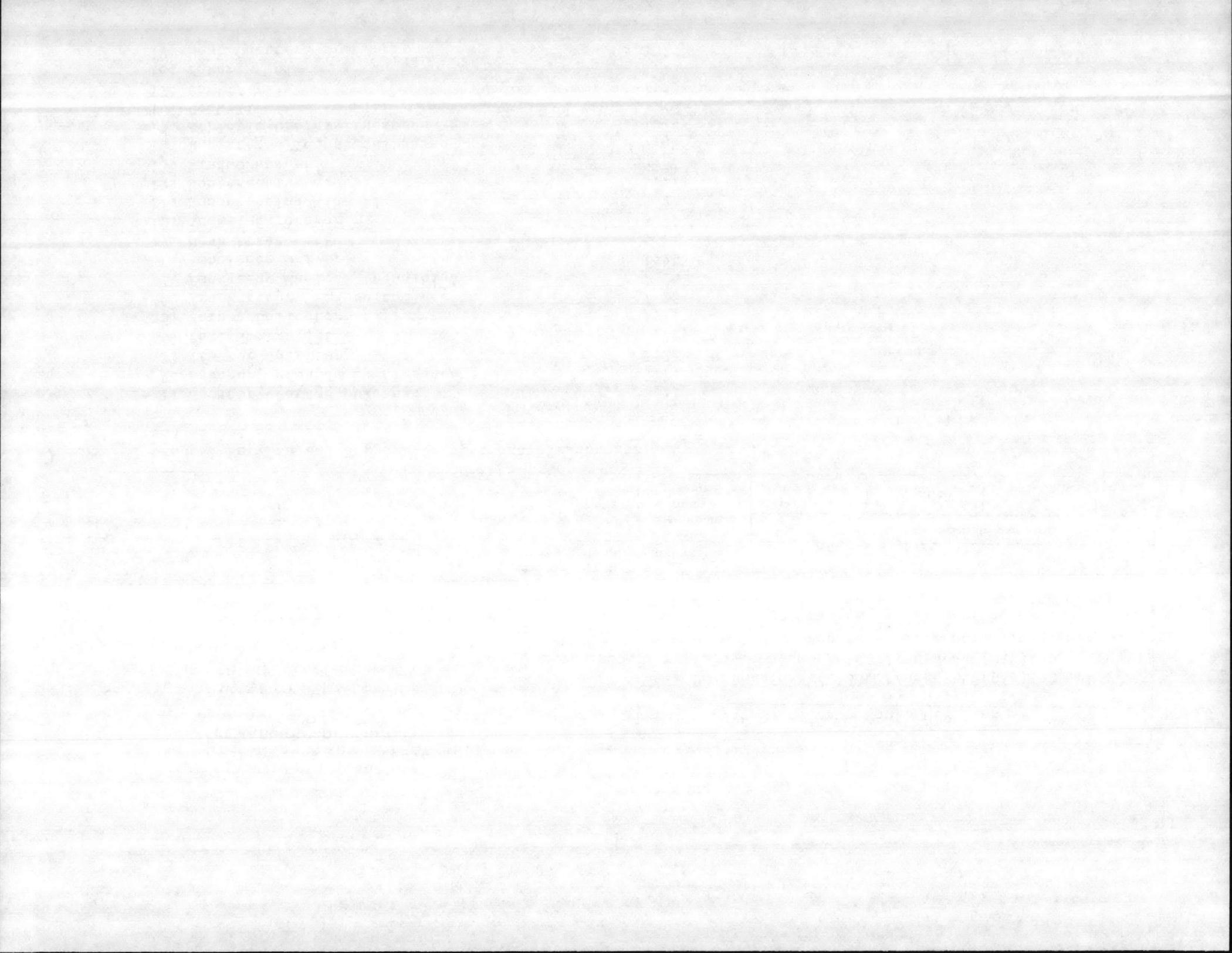
LOCALITY	State: North Carolina - South Carolina	NC-SC
	Area: NC: Beaufort (013), Brunswick (019), Carteret (031), Columbus (047), Craven (049), Dare (055), Hyde (095), Jones (103), Lenoir (107), Martin (117), New Hanover (129), Onslow (133), Pamlico (137), Pender (141), & Washington (187) SC: Horry (051)	
Wage determination number: 86-864 (Rev. 1)		Date: 11/24/86

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 6332
 J-19

Class of service employee	Minimum hourly wage	Fringe benefit payments			
		Health & Welfare	Vacation	Holiday	Other

General Service and Support Occupations, Transportation, and Miscellaneous:

- | | |
|-----------------------------------|------|
| 1. Janitor, Porter, Cleaner | 5.71 |
| 2. Laborer, grounds maintenance | 5.71 |
| 3. Tractor Operator | 7.25 |
| 4. Pest Controller | 5.71 |
| 5. Refuse Collector | 5.71 |
| 6. Truckdriver, refuse collection | 7.25 |
| 7. Emergency Medical Technician | 7.25 |
| 8. Ambulance Driver | 7.25 |
| 9. Mess Attendant | 5.71 |
| 10. Animal Caretaker | 5.71 |
| 11. Housekeeping Aide II | 6.27 |
| 12. Housekeeping Aide I | 5.71 |
| 13. Window Washer | 5.71 |
| 14. Registered Industrial Nurse | 9.48 |
| 15. Athletic Official/Referee | 4.44 |
| 16. Cook II | 8.75 |
| 17. Cook I | 7.25 |
| 18. Baker | 8.75 |
| 19. Meat Cutter | 8.75 |



U.S. DEPARTMENT OF LABOR
 EMPLOYMENT STANDARDS ADMINISTRATION
 WAGE AND HOUR DIVISION
 WASHINGTON, D.C. 20210

REGISTER OF WAGE DETERMINATIONS UNDER
 THE SERVICE CONTRACT ACT
 By direction of the Secretary of Labor

LOCALITY	State: North Carolina - South Carolina	NC-SC
	Area: NC: Beaufort (013), Brunswick (019), Carteret (031), Columbus (047), Craven (049), Dare (055), Hyde (095), Jones (103), Lenoir (107), Martin (117), New Hanover (129), Onslow (133), Pamlico (137), Pender (141), & Washington (187) SC: Horry (051)	

Paula V. Smith
 Paula V. Smith

Administrator

Wage determination number: 86-864 (Rev. 1)	Date: 11/24/86
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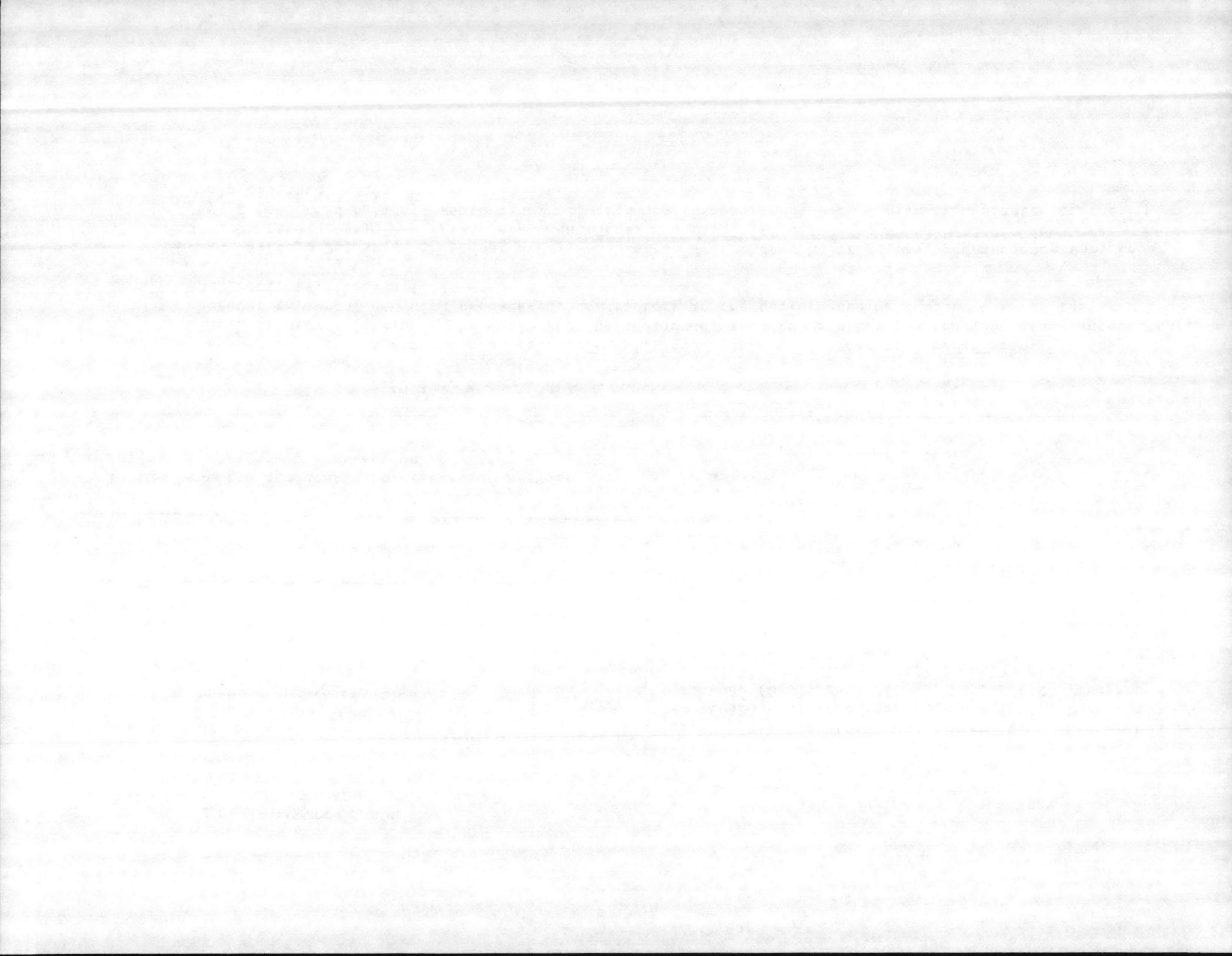
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Class of service employee	Minimum hourly wage	Fringe benefit payments			
		Health & Welfare	Vacation	Holiday	Other

Fringe benefits applicable to classes of service employees engaged in contract performance:

	<u>1/</u>	<u>2/</u>	<u>3/</u>
--	-----------	-----------	-----------

- 1/ \$. 59 an hour or \$23.60 a week or \$102.26 a month.
- 2/ 1 week paid vacation after 1 year of service with contractor or successor; 2 weeks after 3 years. Length of service includes the whole span of continuous service with the present (successor) contractor, wherever employed, and with predecessor contractors in the performance of similar work at the same Federal facility. (Reg. 4.173).
- 3/8 paid holidays per year: New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, and Christmas Day. (A contractor may substitute for any of the named holidays another day off with pay in accordance with a plan communicated to the employees involved.)



NOTE: The contracting office shall require that any class of service employee which is not listed herein and which is to be employed under the contract (i.e., the work to be performed is not performed by any classification listed in the wage determination), be classified by the contractor so as to provide a reasonable relationship (i.e., appropriate level of skill comparison) between such unlisted classifications and the classifications listed in the wage determination. Such conformed class of employees shall be paid the monetary wages and furnished the fringe benefits as are determined. Such conforming procedure shall be initiated by the contractor prior to the performance of contract work by such unlisted class of employee. A written report of the proposed conforming action, including information regarding the agreement or disagreement of the authorized representative of the employees involved or, where there is no authorized representative, the employees themselves, shall be submitted by the contractor to the contracting officer no later than 30 days after such unlisted class of employees performs any contract work. The contracting officer shall review the proposed action and promptly submit a report of the action, together with the agency's recommendation and all pertinent information including the position of the contractor and the employees, to the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, for review. (See section 4.6 (b)(2) of Regulations 29 CFR 4).

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J-11



Uniform Allowance: If employees are required to wear uniforms in the performance of this contract (either by the terms of the Government contract, by the employer, by state or local law, etc.), the cost of furnishing such uniforms and maintaining (by laundering or dry cleaning) such uniforms is an expense that may not be borne by an employee where such cost reduces the hourly rate below that required by the wage determination. The Department of Labor will accept payment in accordance with the following standards as compliance:

The contractor or subcontractor is required to furnish all employees with an adequate number of uniforms without cost or to reimburse employees for the actual cost of the uniforms. In addition, where uniform cleaning and maintenance is made the responsibility of the employee, all contractors and subcontractors subject to this wage determination shall (in the absence of a bona fide collective bargaining agreement providing for a different amount, or the furnishing of contrary affirmative proof as to actual cost), reimburse all employees for such cleaning and maintenance at a rate of \$3.35 a week (or 67 cents a day). However, in those instances where the uniforms furnished are made of "wash and wear" materials, may be routinely washed and dried with other personal garments, and do not require any special treatment such as dry cleaning, daily washing, or commercial laundering in order to meet the cleanliness or appearance standards set by the terms of the Government contract, by the contractor, by law, or by the nature of the work, there is no requirement that employees be reimbursed for uniform maintenance costs.

05 85 6332

J-1j



DESCRIPTION OF WORK

TITLE: WINDOW CLEANER

1. Major Duties: Clean all interior windows which are an integral part of the outer surface of the building. These windows must be cleaned free of all residue, and without streaks or smears.

2. Skill and Knowledge:

(a) Must have the ability to understand instructions pertaining to work assignment.

(b) Must be knowledgeable of cleaning chemicals and their proper use.

(c) Must have the ability to use all cleaning equipment associated with window cleaning to include telescopic extension poles, squeegees, sponges, chamois rags or cloths, all attachments to window cleaning kits.

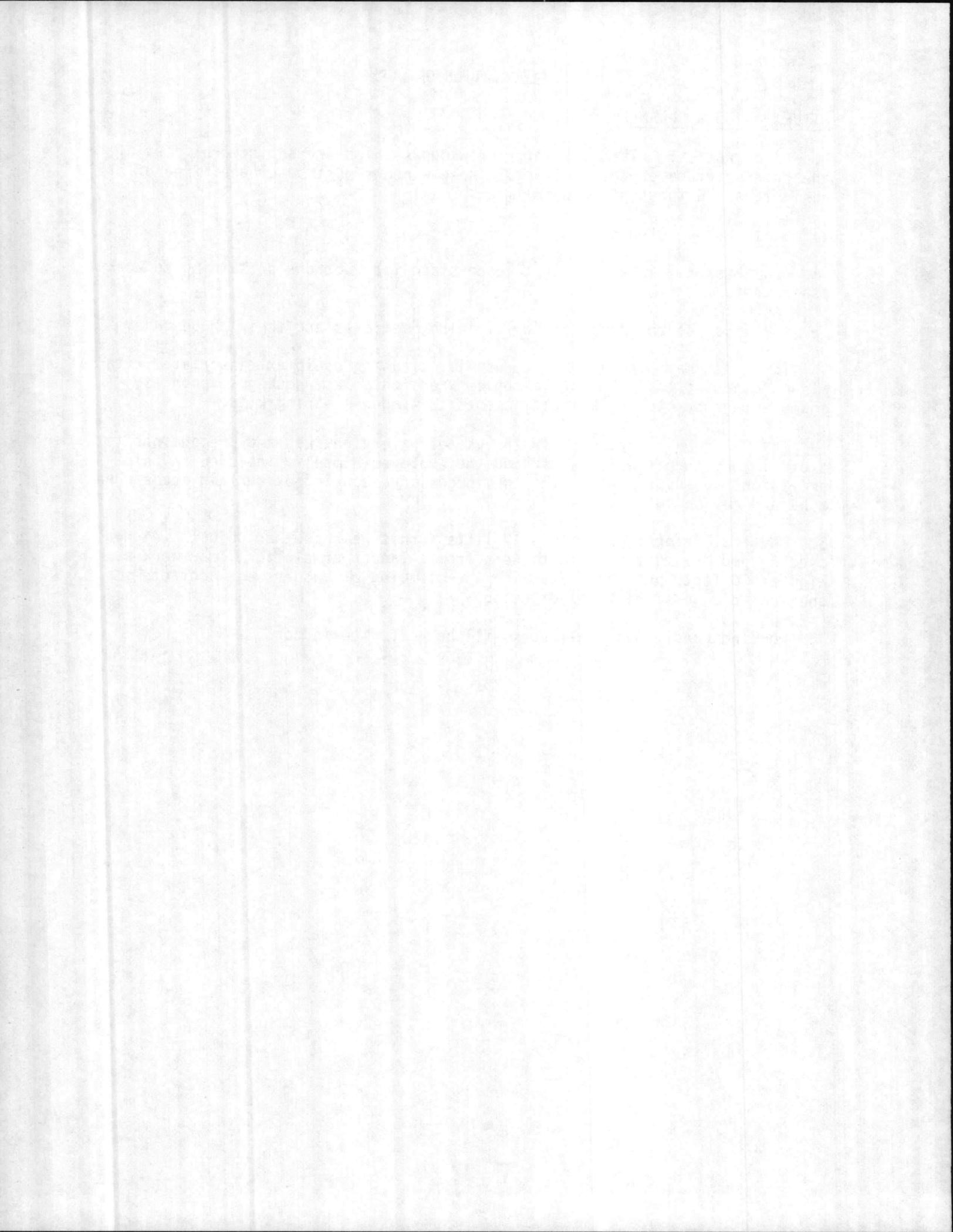
(d) Must be experienced in the use of safety devices and precautions to avoid injury to patients, staff and the employee himself, included in this provision is ladders, warning signs, necessary securing of curtain areas when a hazard may be potential.

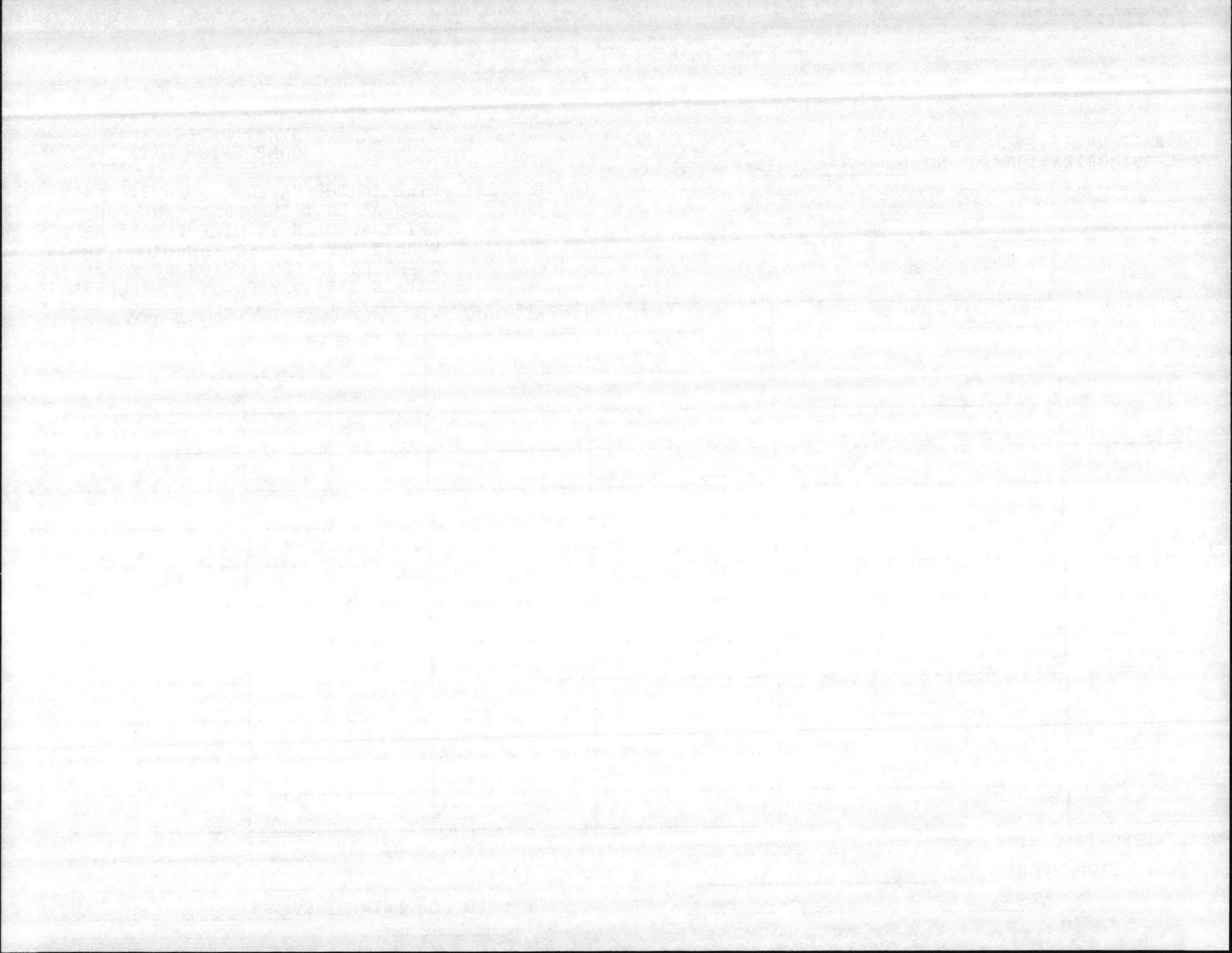
3. Physical Effort: Occasionally lifts furniture and other objects weighing over 50 pounds, must be able to work from a ladder or platform, may work as high as 30 feet, prolonged standing and climbing of ladders and contact with chemical cleaners are to be expected.

4. Working Conditions: All work will be performed indoors.

05 85 6332

J-1K





AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE _____ PAGE OF PAGES _____

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY CODE _____	7. ADMINISTERED BY (If other than Item 6) CODE _____		

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)	(f)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
		10A. MODIFICATION OF CONTRACT/ORDER NO.
		10B. DATED (SEE ITEM 13)
CODE _____	FACILITY CODE _____	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
 (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

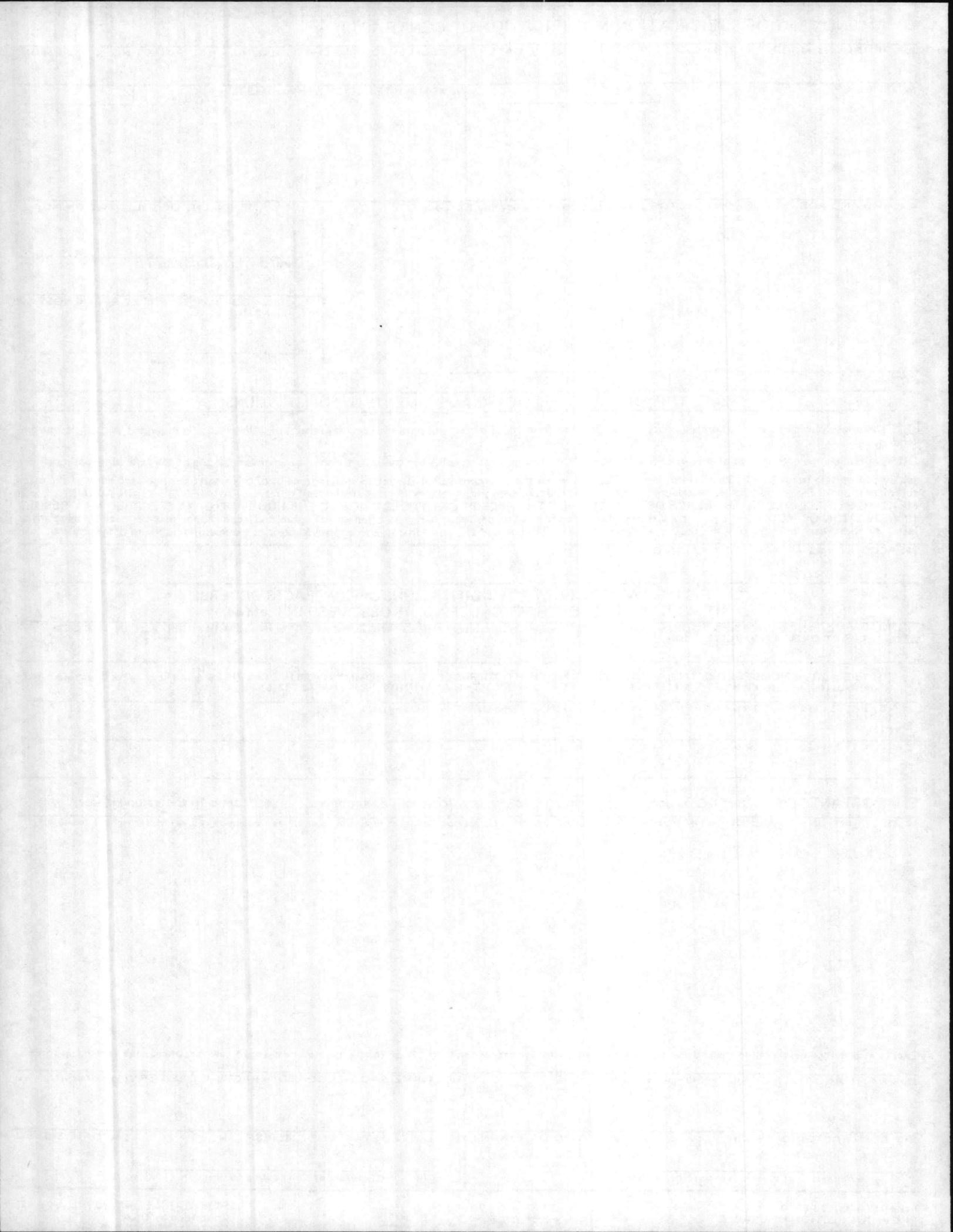
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(v)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

15A. NAME AND TITLE OF SIGNER (Type or print)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
_____ (Signature of person authorized to sign)		BY _____ (Signature of Contracting Officer)	



Instructions for items other than those that are self-explanatory, are as follows:

(a) Item 1 (Contract ID Code). Insert the contract type identification code that appears in the title block of the contract being modified.

(b) Item 3 (Effective date).

(1) For a solicitation amendment, change order, or administrative change, the effective date shall be the issue date of the amendment, change order, or administrative change.

(2) For a supplemental agreement, the effective date shall be the date agreed to by the contracting parties.

(3) For a modification issued as an initial or confirming notice of termination for the convenience of the Government, the effective date and the modification number of the confirming notice shall be the same as the effective date and modification number of the initial notice.

(4) For a modification converting a termination for default to a termination for the convenience of the Government, the effective date shall be the same as the effective date of the termination for default.

(5) For a modification confirming the contracting officer's determination of the amount due in settlement of a contract termination, the effective date shall be the same as the effective date of the initial decision.

(c) Item 6 (Issued By). Insert the name and address of the issuing office. If applicable, insert the appropriate issuing office code in the code block.

(d) Item 8 (Name and Address of Contractor). For modifications to a contract or order, enter the contractor's name, address, and code as shown in the original contract or order, unless changed by this or a previous modification.

(e) Items 9, (Amendment of Solicitation No.—Dated), and 10, (Modification of Contract/Order No.—Dated). Check the appropriate box and in the corresponding blanks insert the number and date of the original solicitation, contract, or order.

(f) Item 12 (Accounting and Appropriation Data). When appropriate, indicate the impact of the modification on each affected accounting classification by inserting one of the following entries:

(1) Accounting classification
Net increase \$

(2) Accounting classification
Net decrease \$

NOTE: If there are changes to multiple accounting classifications that cannot be placed in block 12, insert an asterisk and the words "See continuation sheet".

(g) Item 13. Check the appropriate box to indicate the type of modification. Insert in the corresponding blank the authority under which the modification is issued. Check whether or not contractor must sign this document. (See FAR 43.103.)

(h) Item 14 (Description of Amendment/Modification).

(1) Organize amendments or modifications under the appropriate Uniform Contract Format (UCF) section headings from the applicable solicitation or contract. The UCF table of contents, however, shall not be set forth in this document.

(2) Indicate the impact of the modification on the overall total contract price by inserting one of the following entries:

(i) Total contract price increased by \$

(ii) Total contract price decreased by \$

(iii) Total contract price unchanged.

(3) State reason for modification.

(4) When removing, reinstating, or adding funds, identify the contract items and accounting classifications.

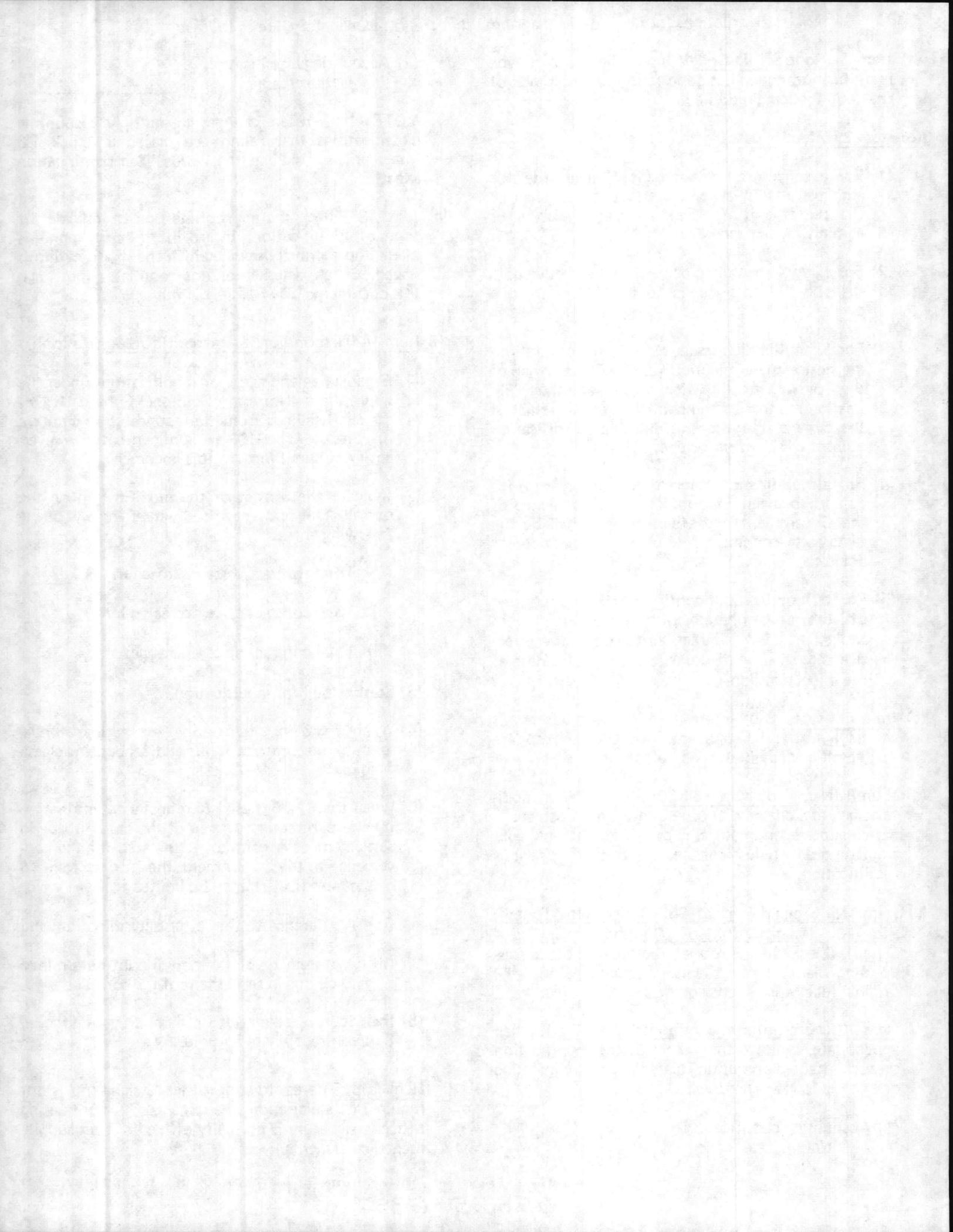
(5) When the SF 30 is used to reflect a determination by the contracting officer of the amount due in settlement of a contract terminated for the convenience of the Government, the entry in Item 14 of the modification may be limited to —

(i) A reference to the letter determination; and

(ii) A statement of the net amount determined to be due in settlement of the contract.

(6) Include subject matter or short title of solicitation/contract where feasible.

(i) Item 16B. The contracting officer's signature is not required on solicitation amendments. The contracting officer's signature is normally affixed last on supplemental agreements.



PERFORMANCE EVALUATION - CONSTRUCTION CONTRACTS

1. CONTRACT NUMBER

PART I - GENERAL CONTRACT DATA

2. CONTRACTOR (Name, address and ZIP code)

3. TYPE OF CONTRACT (Check)

A. ADVERTISED

B. NEGOTIATED

CPFF

FIRM FIXED PRICE

OTHER (Specify)

4. COMPLEXITY OF WORK

DIFFICULT

ROUTINE

5. DESCRIPTION AND LOCATION OF WORK

6. FISCAL DATA



A. AMOUNT OF BASIC CONTRACT

\$

B. TOTAL AMOUNT OF MODIFICATION

\$

C. LIQUIDATED DAMAGES ASSESSED

\$

D. NET AMOUNT PAID CONTRACTOR

\$

7. SIGNIFICANT DATES



A. DATE OF AWARD

B. ORIGINAL CONTRACT COMPLETION DATE

C. REVISED CONTRACT COMPLETION DATE

D. DATE WORK ACCEPTED

8. TYPE AND EXTENT OF SUBCONTRACTING

PART II - PERFORMANCE EVALUATION OF CONTRACT (Check appropriate box)

9. PERFORMANCE ELEMENTS

OUTSTANDING

SATISFACTORY

UNSATISFACTORY

A. QUALITY OF WORK

B. TIMELY PERFORMANCE

C. EFFECTIVENESS OF MANAGEMENT

D. COMPLIANCE WITH LABOR STANDARDS

E. COMPLIANCE WITH SAFETY STANDARDS

10. OVERALL EVALUATION

OUTSTANDING (Explain in Item 13, on reverse)

SATISFACTORY

UNSATISFACTORY (Explain in Item 14, on reverse)

11. EVALUATED BY

A. ORGANIZATION (Type or print)

B. NAME AND TITLE (Type or print)

C. SIGNATURE

D. DATE

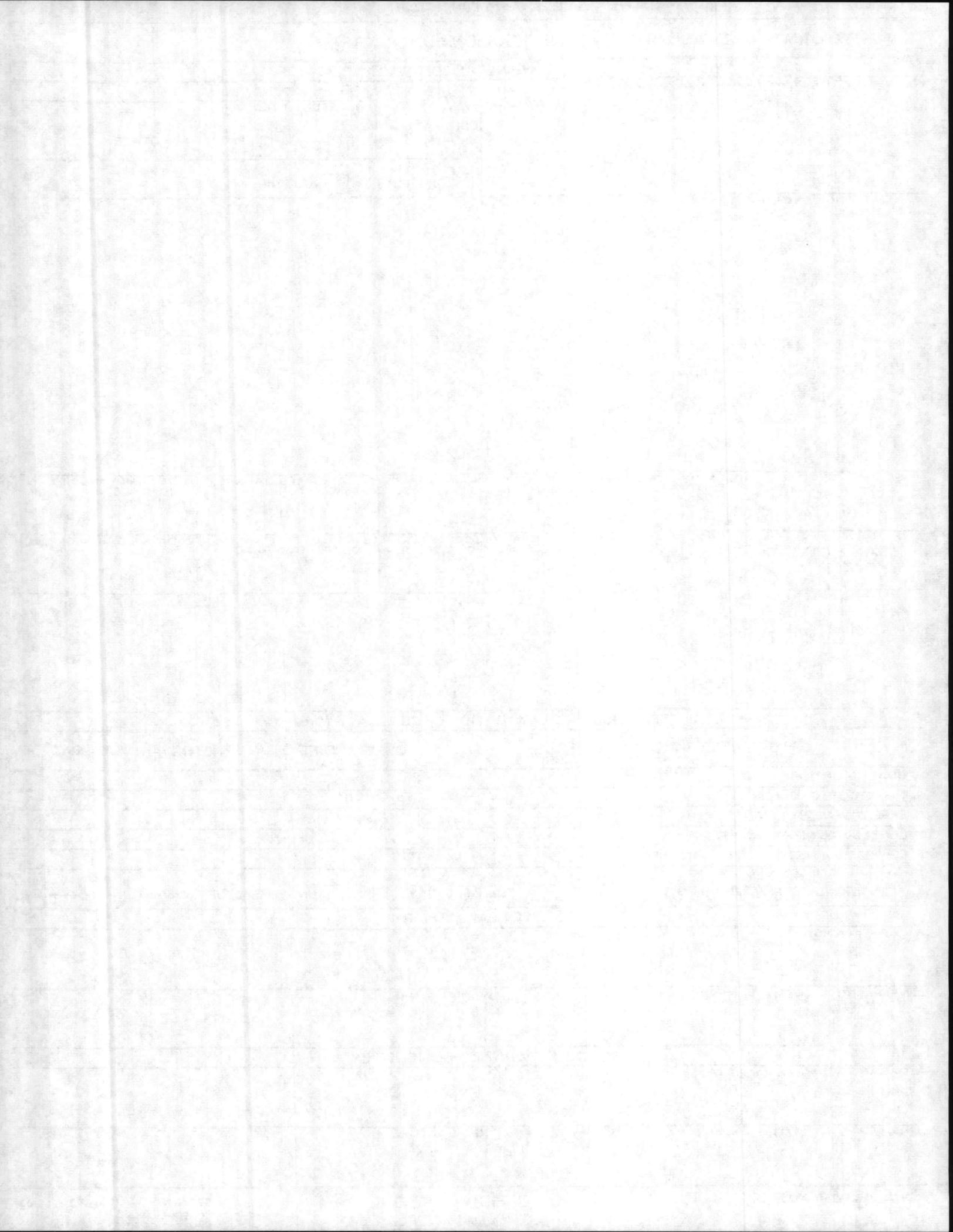
12. EVALUATION REVIEWED BY

A. ORGANIZATION (Type or print)

B. NAME AND TITLE (Type or print)

C. SIGNATURE

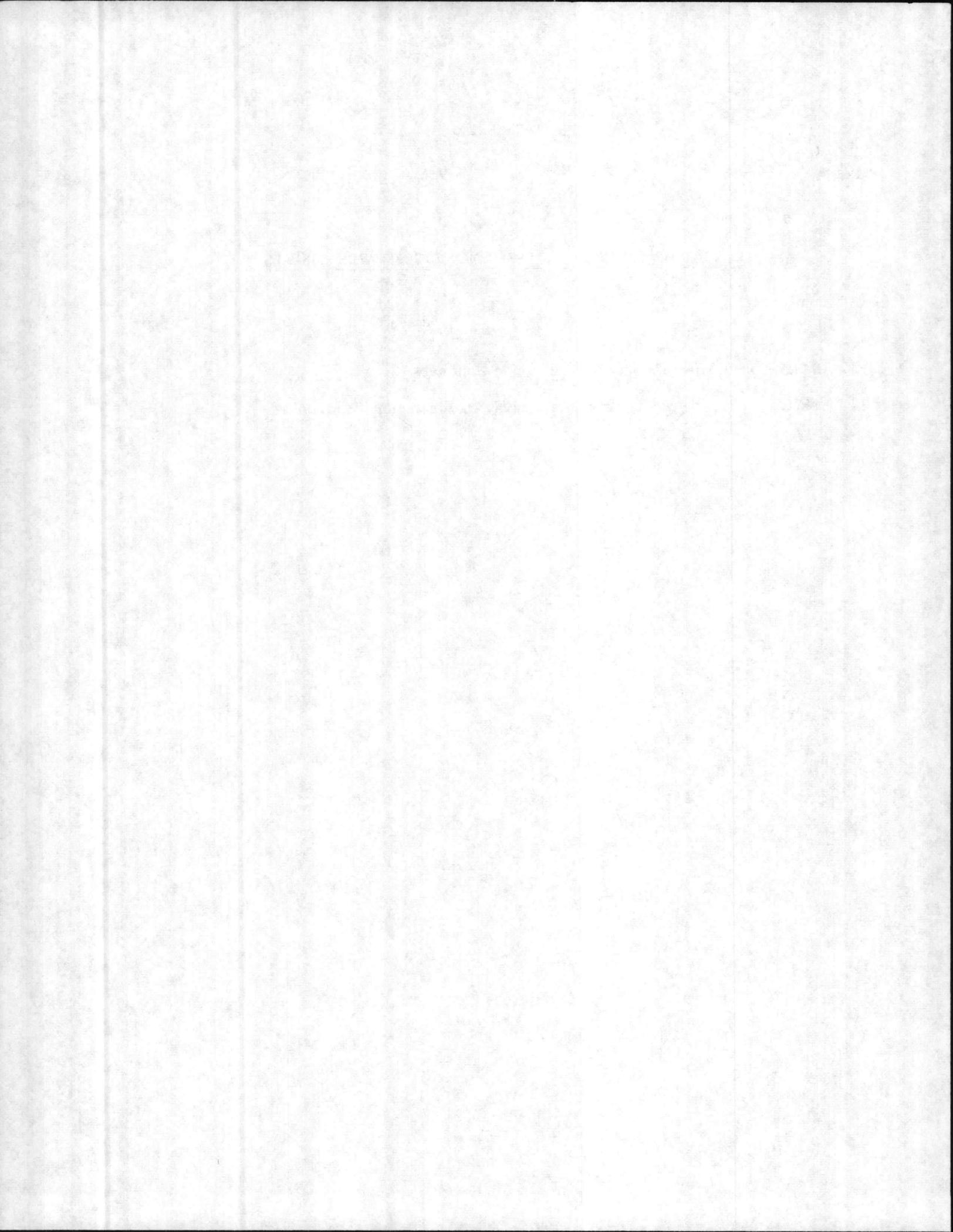
D. DATE



ATTACHMENT J-B1

LIST OF ENGINEERING PERFORMANCE STANDARDS MANUALS

1. NAVFAC P-703.0 Electric/Electronic Handbook
2. NAVFAC P-717.0 Preventive/Recurring Maintenance Handbook



SECTION J

ATTACHMENT J-C1

CONTRACT SUBMITTAL LIST

1. Schedule of Deduction - Submit within 15 days of award - Clause B.4, Section B.
2. Task Verification Document - Submit format for approval as part of Contractor Quality Control Plan - Clause C.11, Paragraph c, Section C; submit to QAE daily.
3. Quality Control Plan - Submit within 15 days of award - Clause C.11, Section C.
4. Initial Work Schedule - Submit within 15 days of award - Clause F.4, Section F.
5. Monthly Work Schedule - Submit with monthly invoice - Clause F.4, Section F.
6. Work Authorization Form - Clause G.2, Section G
7. Invoices - Submit monthly with supporting documents - Clause G.3, Section G.
8. Accident Report - Submit within 24 hours of occurrence - Clause H.7, Section H.
9. Passes and Badges - Obtain within 15 days of award - Clause H.9 Section H.
10. Insurance Certification - Submit within 15 days of award - Clause H.16 Section H.

SECTION J

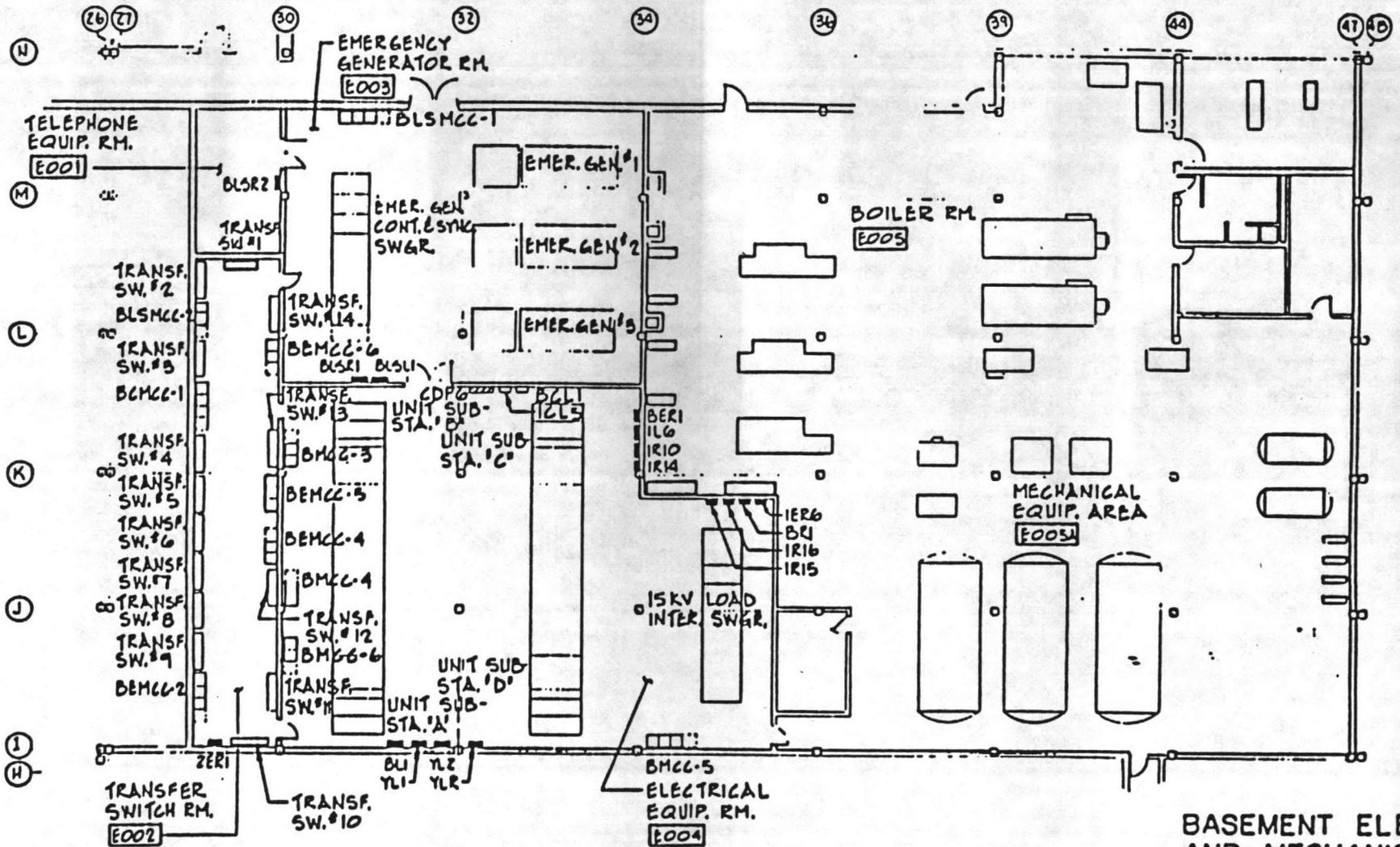
ATTACHMENT J-C2

APPLICABLE CODES AND PUBLICATION

1. National Electrical Code - NEC
2. National Electrical Manufacturer's Association - NEMA
3. American Society for Testing Materials - ASTM
4. Institute of Electrical and Electronic Engineers - IEEE
5. National Electrical Testing Association - NETA
6. American National Standards Institute - ANSI
7. State and Local Codes and Ordinances
8. Insulated Power Cable Engineers Association - IPCEA
9. Association of Edison Illuminating Companies - AEIC

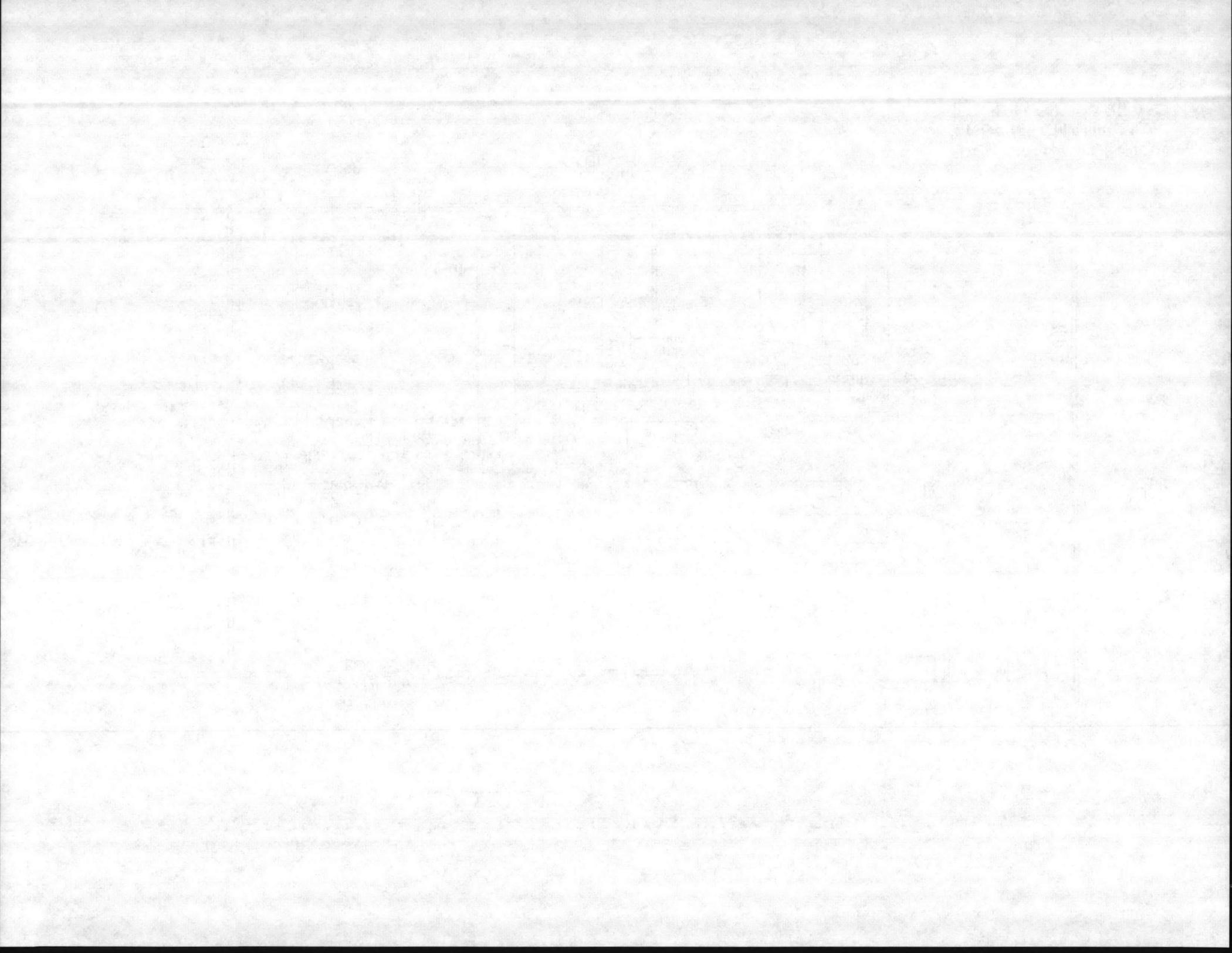
SINGLE LINE DIAGRAM, NAVAL HOSPITAL

PLATE NO. 3



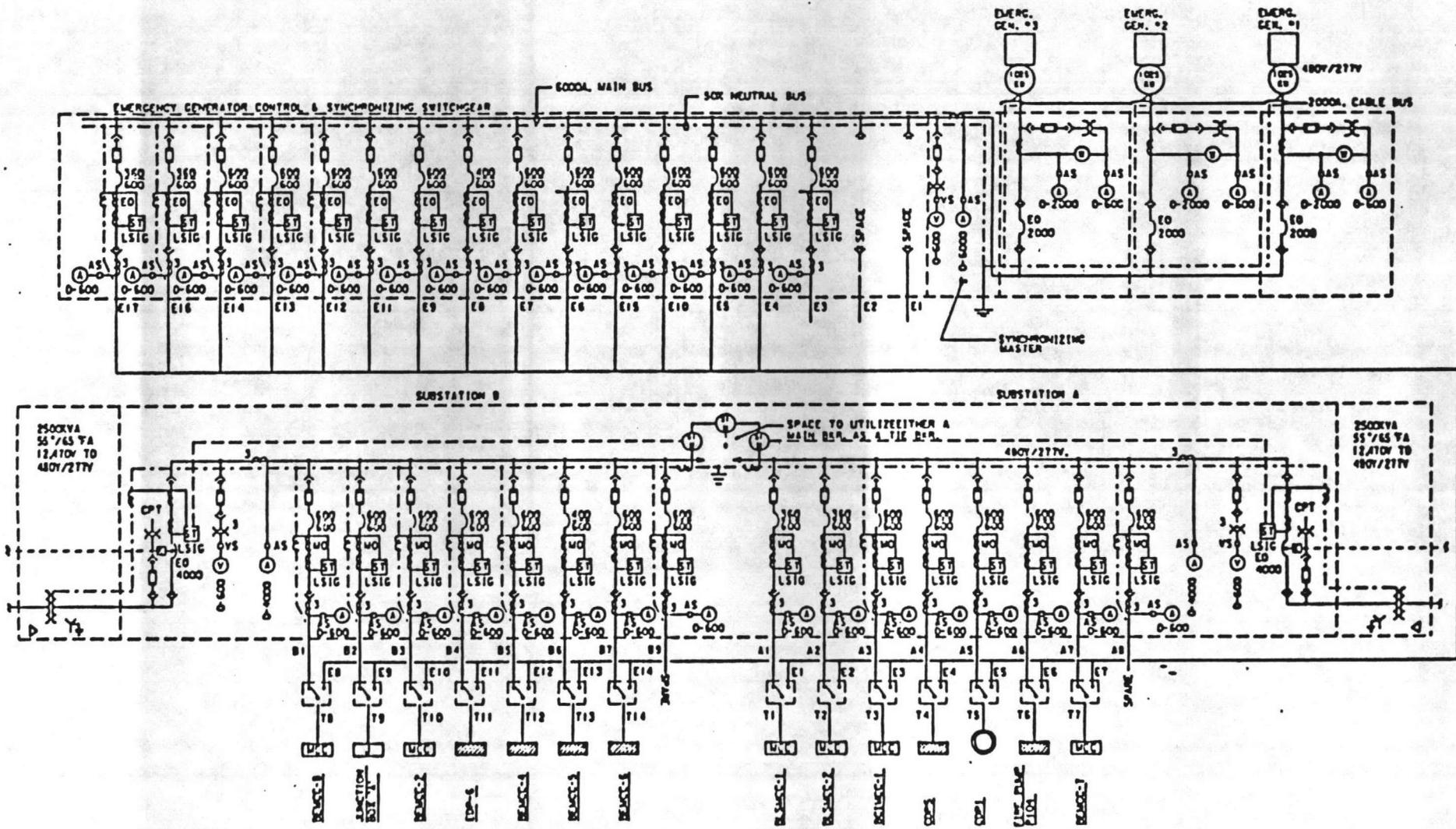
05-85-6332

BASEMENT ELECTRICAL AND MECHANICAL EQUIPMENT AREAS



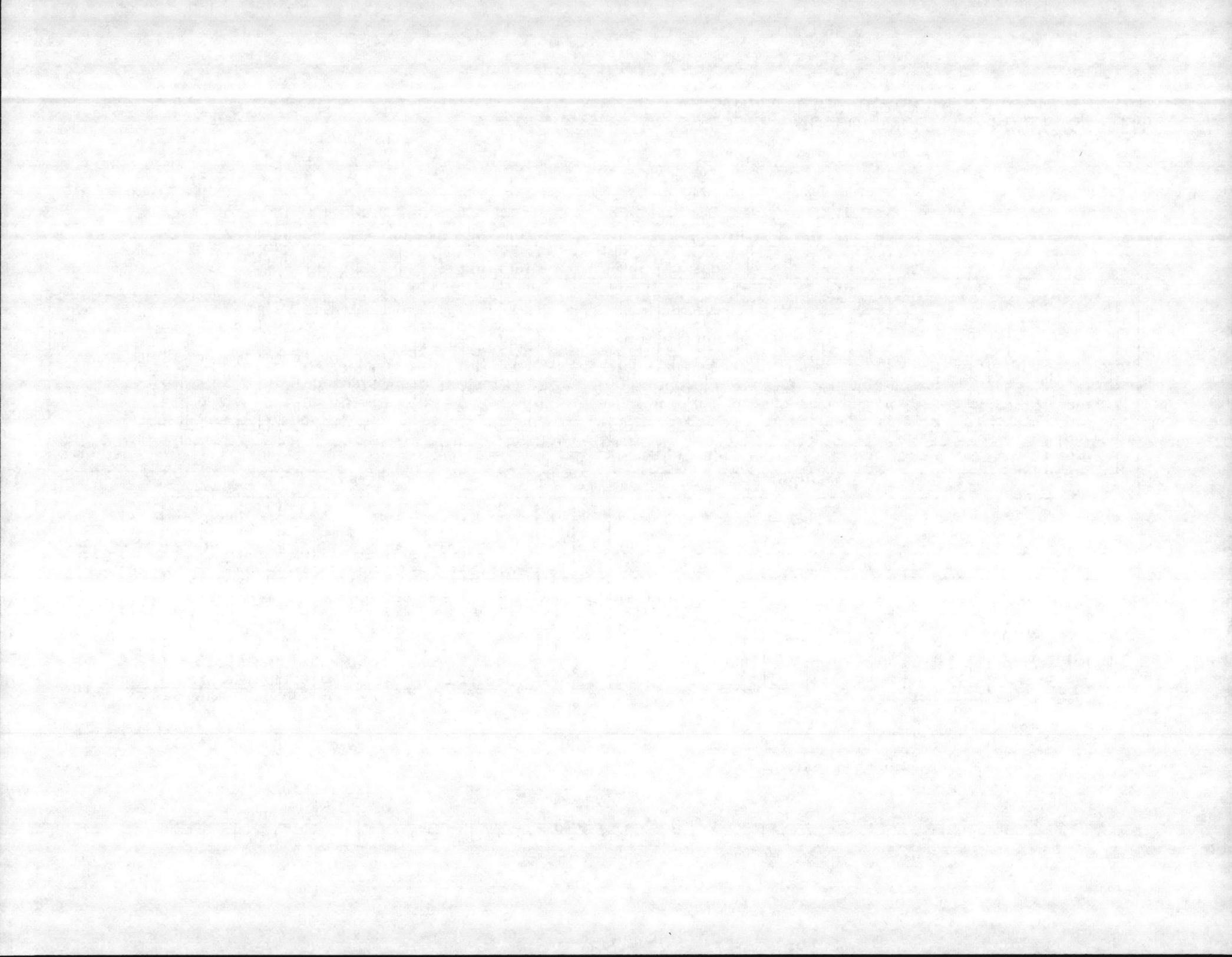
SINGLE LINE DIAGRAM, NAVAL HOSPITAL

PLATE NO. 2



ESSENTIAL LOW VOLTAGE POWER SYSTEM
SINGLE LINE DIAGRAM

05-RC-6332

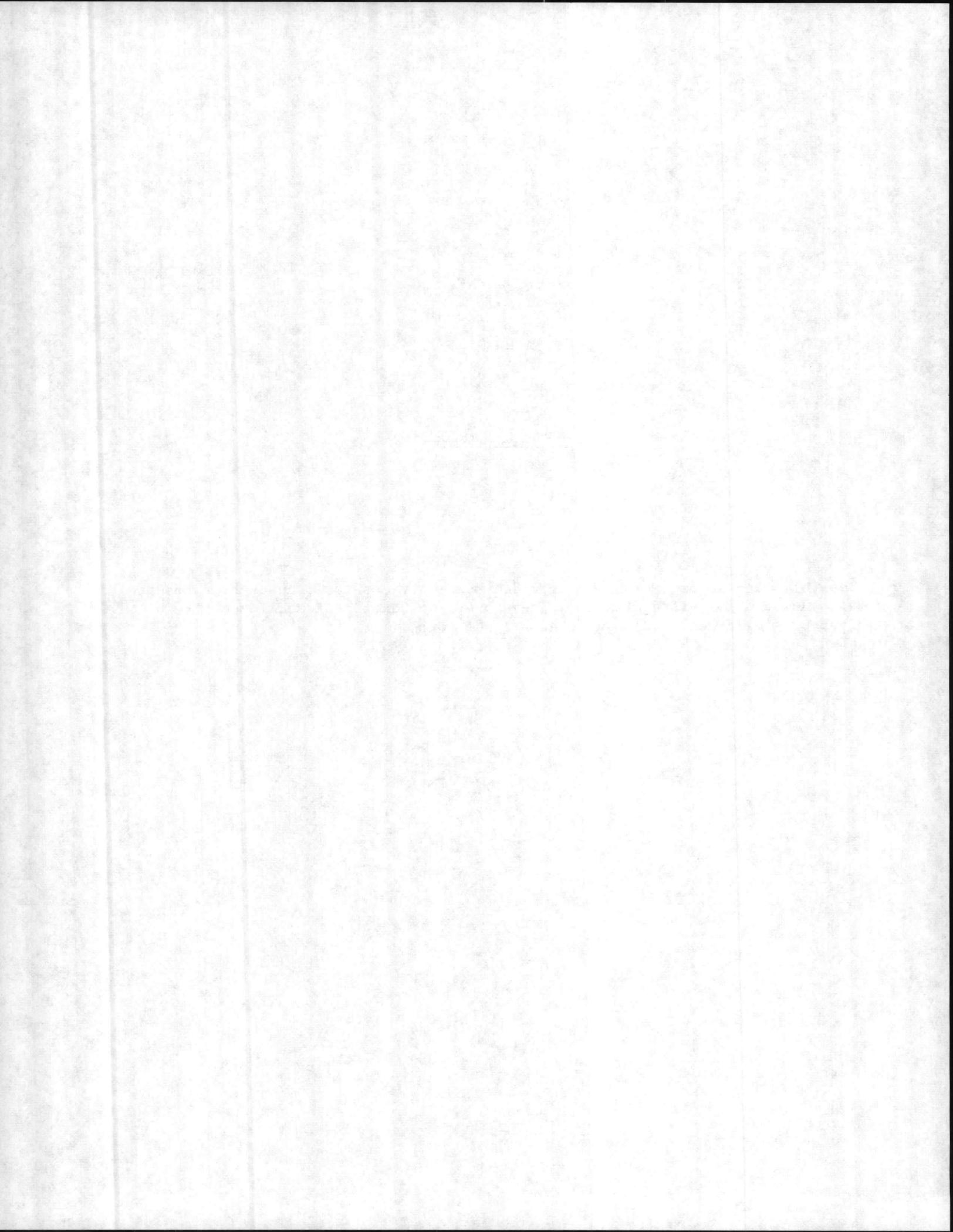


SECTION J

ATTACHMENT J-H2

CERTIFIED REPORTS

The following Report Forms are provided for contractor use; however, forms are not included for all equipment. Therefore, the Contractor shall generate a form of similar data for equipment without forms.



TRANSFORMER INSPECTION REPORT

JOB NO. _____

CUSTOMER _____ DATE OF TEST _____

LOCATION _____ NEXT TEST DUE _____

PROCEDURE _____ TESTED BY _____

I. TRANSFORMER INFORMATION

Trans.No. _____

Location: _____ -KVA _____ Prim.Volt. _____ Sec.Volt _____

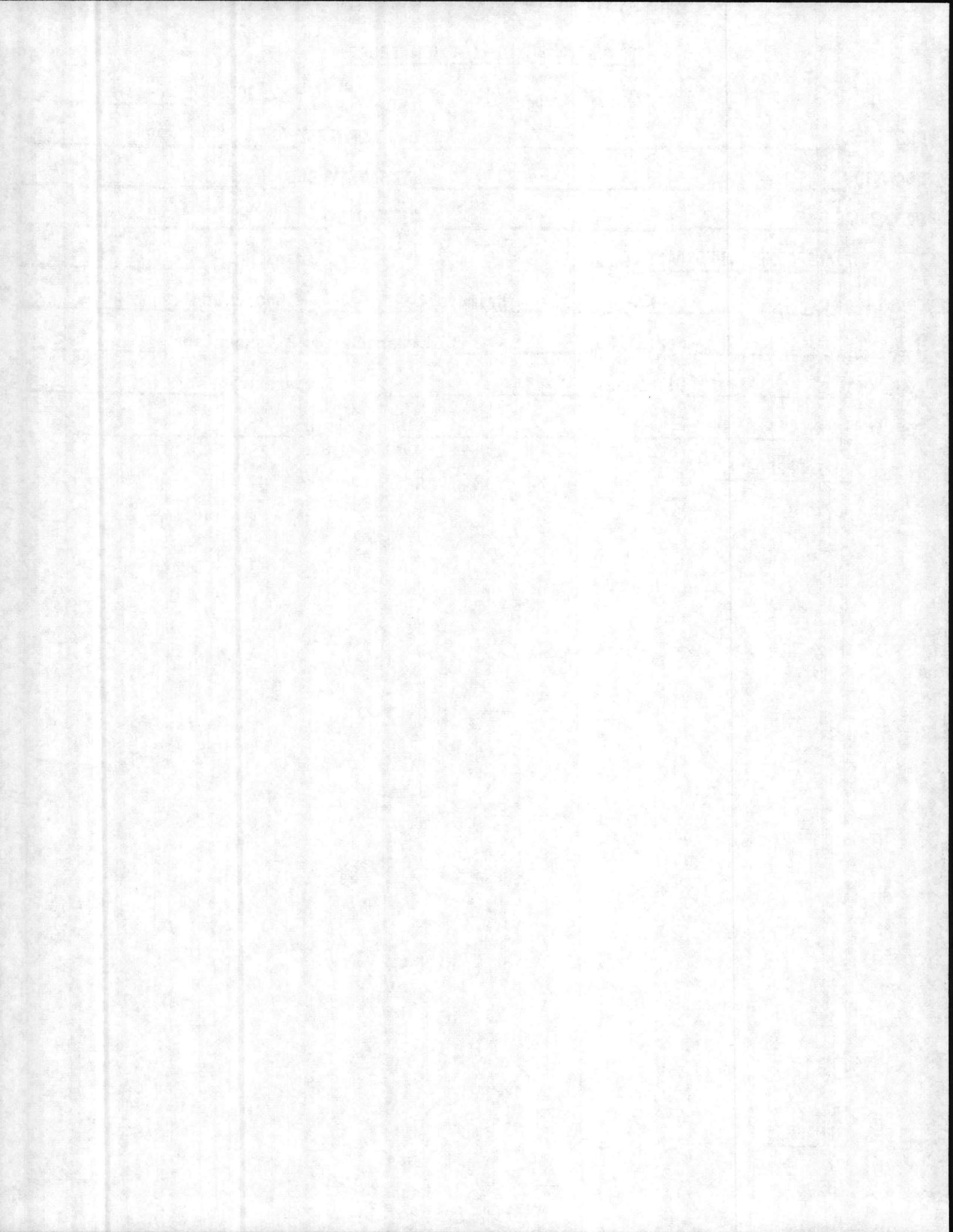
Mfg. _____ Serial No. _____ %Impedance _____ Connection _____

Type Oil _____ Oil Level _____ Temperature _____

Serving _____ Gals.Fluid _____

II. WORK PERFORMED

III. REMARKS:



TRANSFORMER RATIO TEST

JOB NO. _____

CUSTOMER _____ DATE OF TEST _____

LOCATION _____ TESTED BY _____

PROCEDURE _____

I. TRANSFORMER INFORMATION

Trans. No. _____

Location or No. _____ KVA _____ Prim. Volt. _____ Sec. Volt. _____

Mfg. _____ Serial No. _____ % Impedance _____ Connection _____

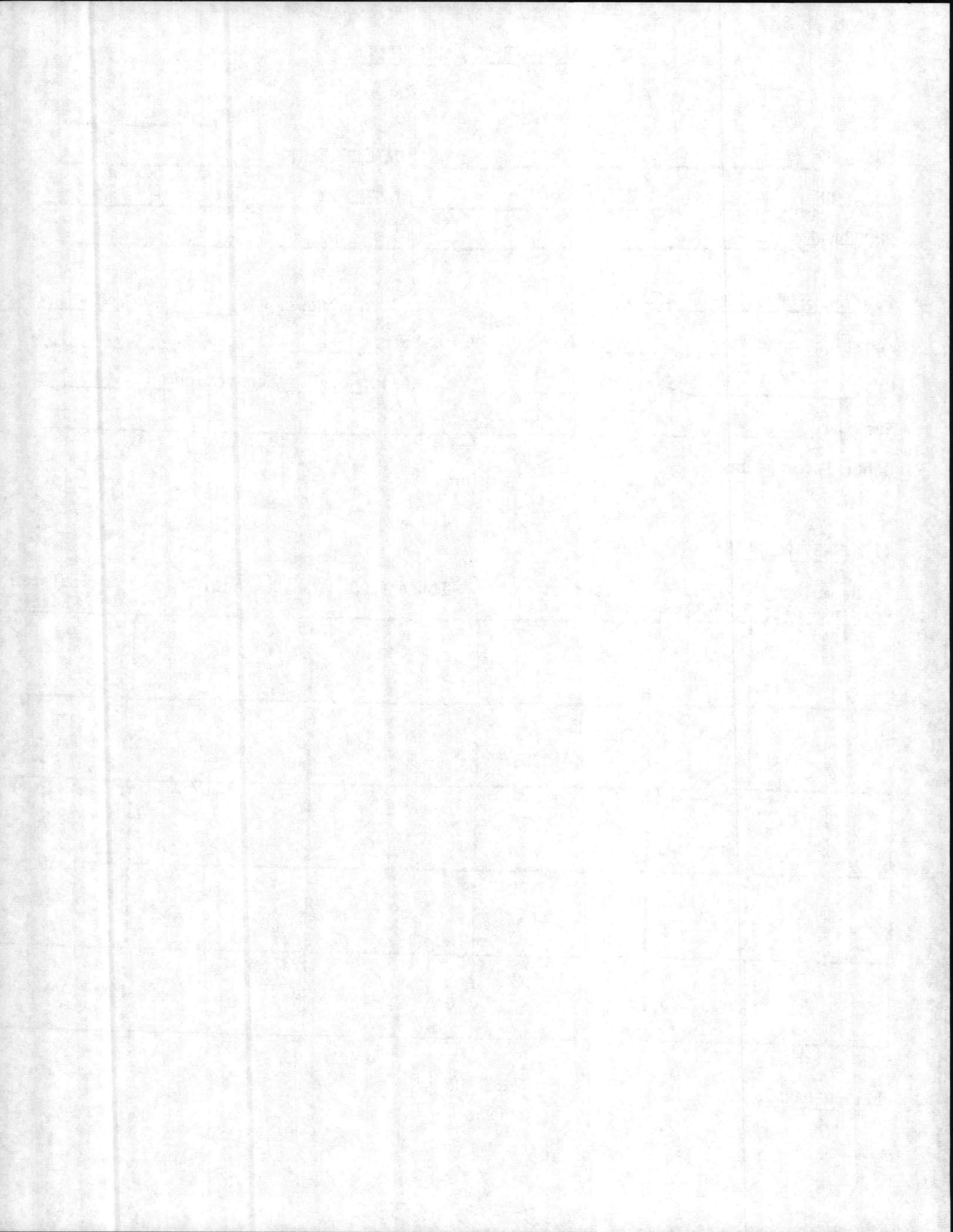
Serving _____

Other Information:

II. TEST RESULTS:

Nameplate Primary Volts	Tap Position	Connection	Connection	Connection	Calculated Ratio

III. REMARKS:



TRANSFORMER OIL TEST

JOB NO. _____

CUSTOMER _____ DATE OF TEST _____

CUSTOMER P.O. NO. _____ NEXT TEST DUE _____

LOCATION _____ TESTED BY _____

PROCEDURE STANDARD _____

1. TRANSFORMER INFORMATION: #1 _____ Trans.No. _____

Location: _____ KVA _____ Prim.Volt _____ Sec.Volt _____

Mfg. _____ Serial No. _____ % Impedance _____

Type Oil _____ Top Sample _____ Bottom Sample _____ Connection _____

Gallons: _____ Pressure: _____ Oil Level _____

Other Information:

2. TEST RESULTS:

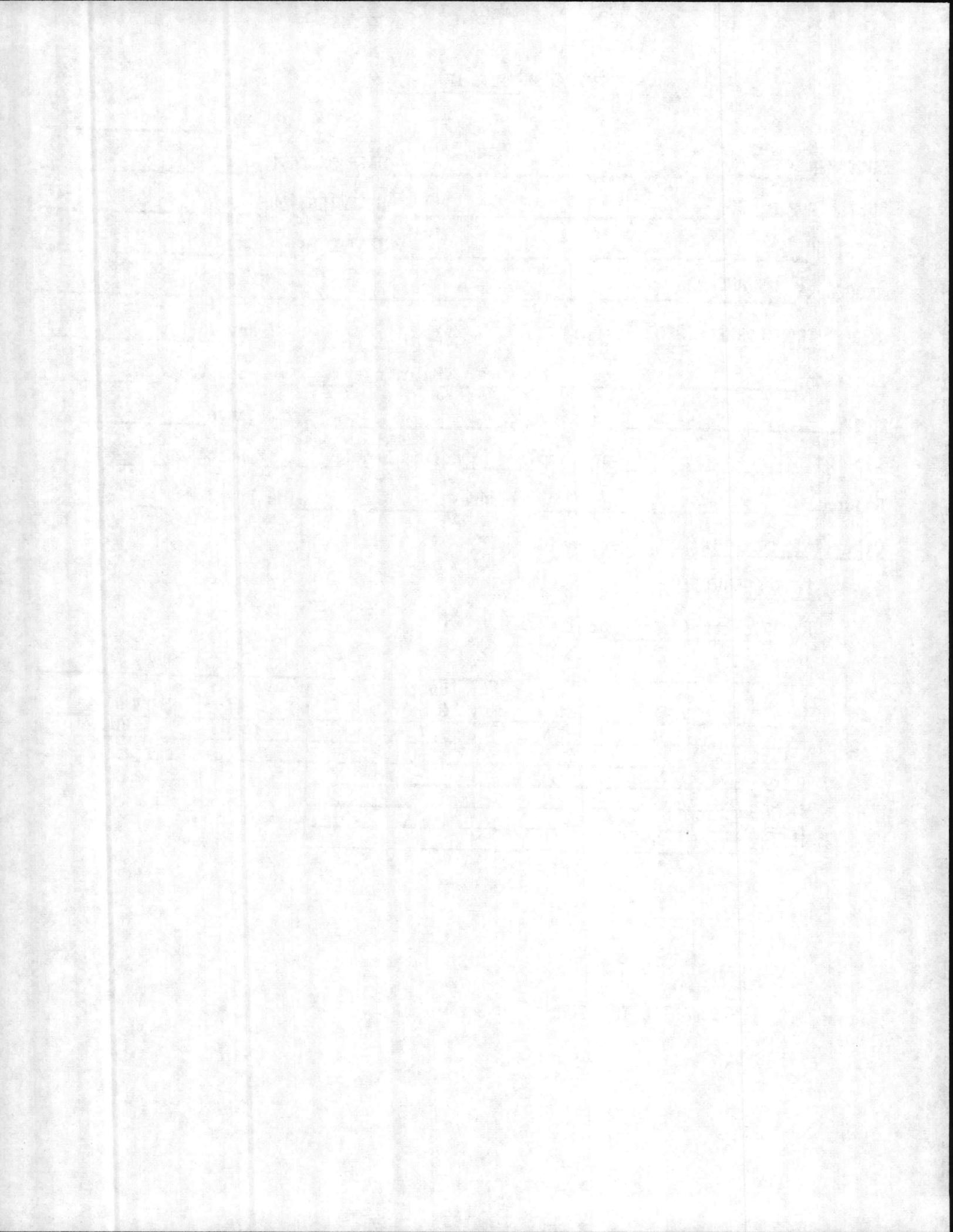
A. Dielectric Strength:

	Top Sample KV	Bottom Sample KV	Average KV	
			Top	Bottom
Test No. 1				
Test No. 2				
Test No. 3				
Test No. 4				
Test No. 5				

B. Other Results:

ACIDITY NUMBER:
COLOR:
INTERFACIAL TENSION:

3. REMARKS:



MEDIUM VOLTAGE BREAKER TEST REPORT

JOB NO. _____

Customer _____ Date of Test _____

Customer P. O. No. _____ Next Test Due _____

Location _____ Tested By _____

Procedure _____

1. BREAKER INFORMATION

Switchgear No. _____ Cubicle No. _____ Location _____

Bkr. Mfg. _____ Bkr. Type _____ Serial No. _____

Bkr. Rating _____ Interrupting capacity _____

Phase Relays _____

Ground Relays _____

Other Relays _____

See Relay Test Reports _____ Inst. Book _____

Closing Coil _____ Trip Coil _____

2. INSPECTION CHECK LIST

Arc chutes removed and cleaned _____ Condition _____

Condition of contacts: Main _____ Arcing _____

Contact alignment and pressure _____ Contacts cleaned _____

Main contact resistance (microhms): L.P. _____ C.P. _____ R.P. _____

Breaker and cubicle cleaned _____ Condition _____

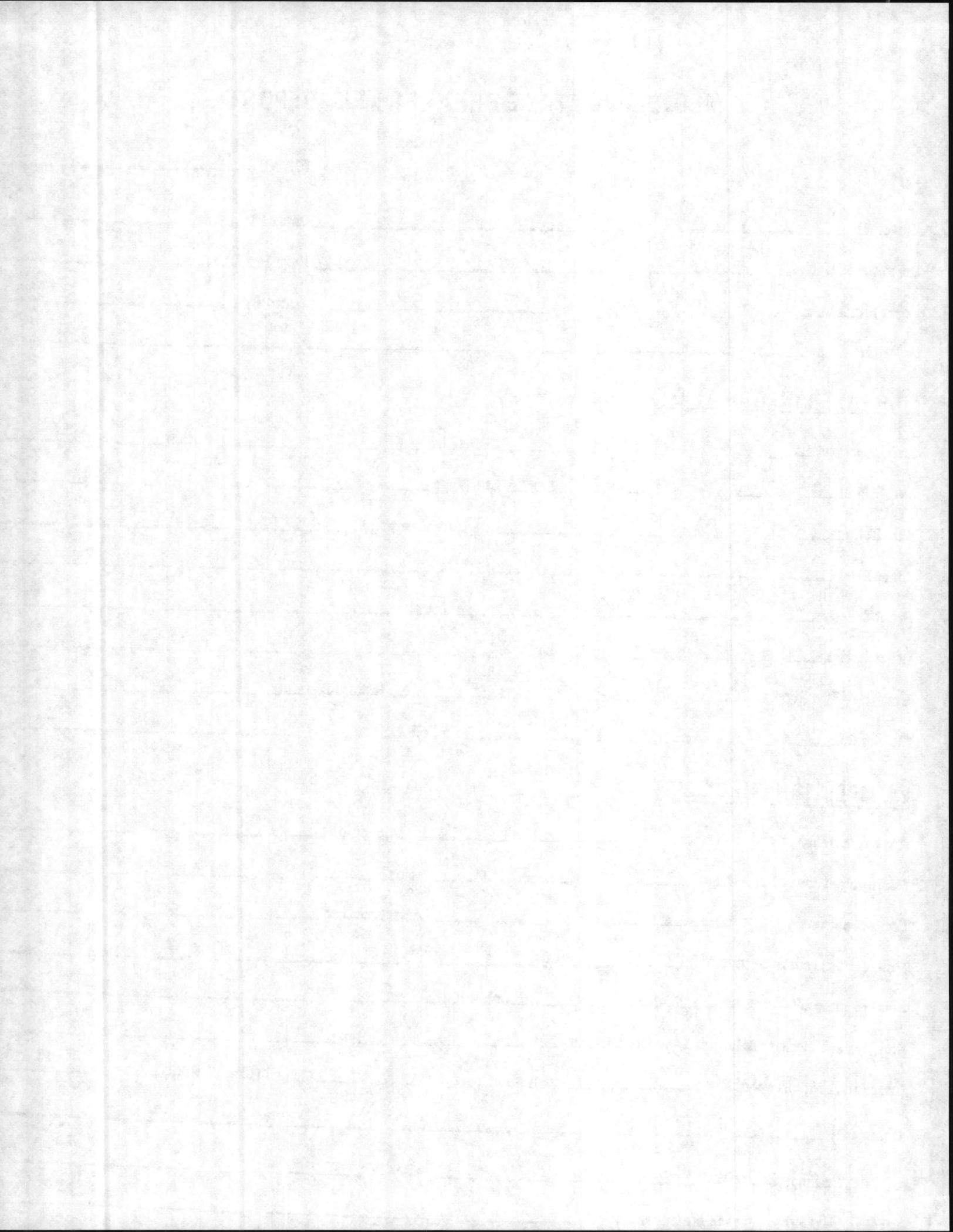
Contacts and mechanism lubricated where necessary _____

Insertion & Withdrawal of Bkr. _____ Shutter Operation _____ Manual Oper. of Bkr. _____

Comments _____

Counter Reading: Before Test _____ After Test _____

Breaker tripped through each protective relay _____



INSULATION READINGS
(2500 Volt Megger) MEGOHMS
ATTACHMENT J-C5 b.

Page 2

Bkr. Test No. _____

Job No. _____

3. BREAKER OPEN

Readings Between Line Side and Load Side

L.P. _____ C.P. _____ R.P. _____

Line Side

Load Side

L.P. to Frame

C.P. to Frame

R.P. to Frame

L.P. to C.P.

L.P. to R.P.

R.P. to C.P.

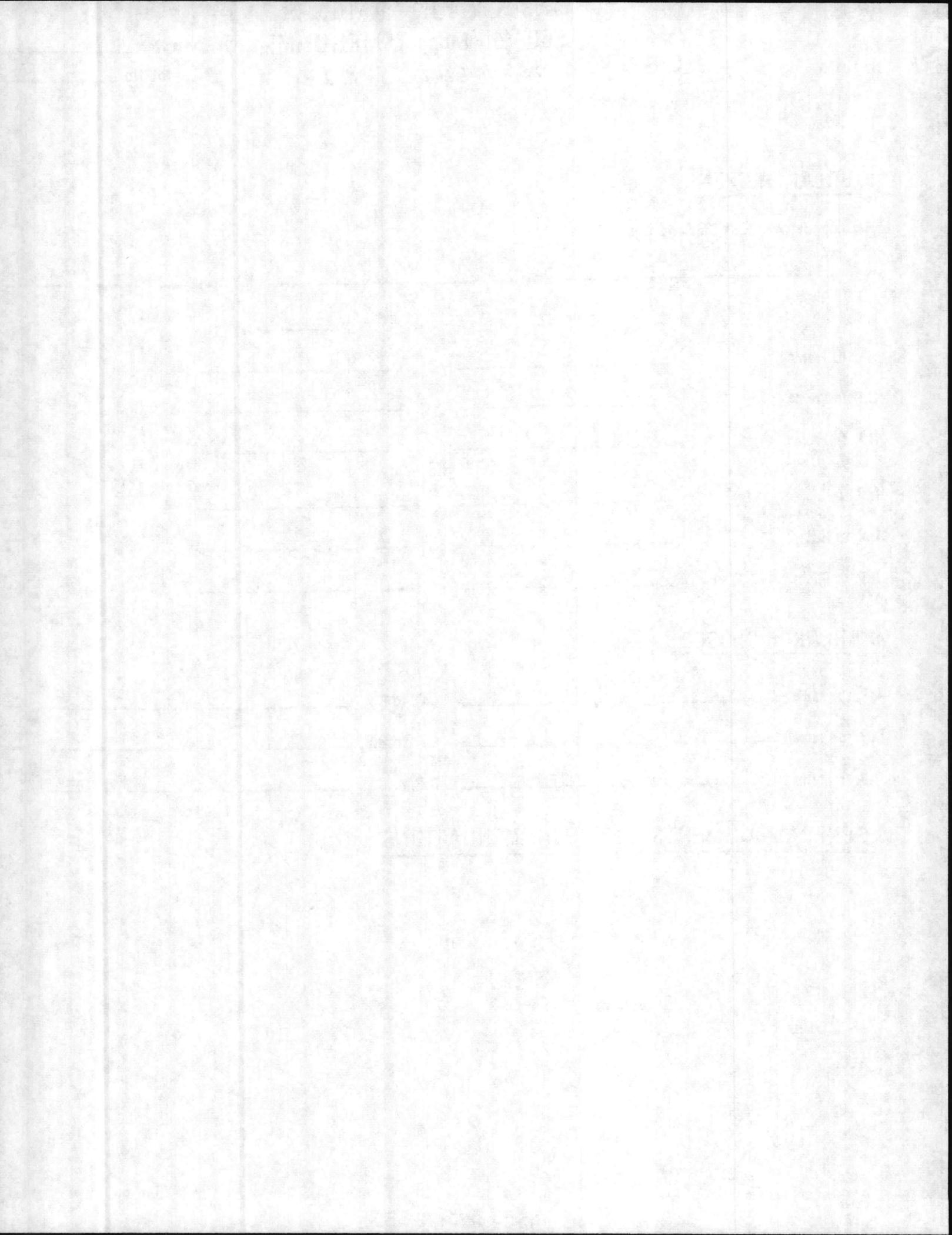
4. BREAKER CLOSED

L.P. to Frame _____ L.P. to C.P. _____

C.P. to Frame _____ L.P. to R.P. _____

R.P. to Frame _____ R.P. to C.P. _____

5. GENERAL COMMENTS AND RECOMMENDATIONS



VOLTAGE REGULATOR REPORT

JOB NO. _____

CUSTOMER _____ DATE OF TEST _____

LOCATION _____ NEXT TEST DUE _____

PROCEDURE _____ TESTED BY _____

I. VOLTAGE REGULATOR INFORMATION

Location _____ KVA _____ Serial No. _____

Mfg. _____ Type _____ Steps: Boost _____ Buck _____

Volts _____ Amps _____ % Range: Boost _____ Buck _____

Counter _____ Regulator Position: Boost _____ Buck _____

Type Oil _____ Oil Level _____ Temperature 31 Max. Temp. _____

Gals Fluid _____ Other Information _____

II. CONTROL PANEL SETTINGS

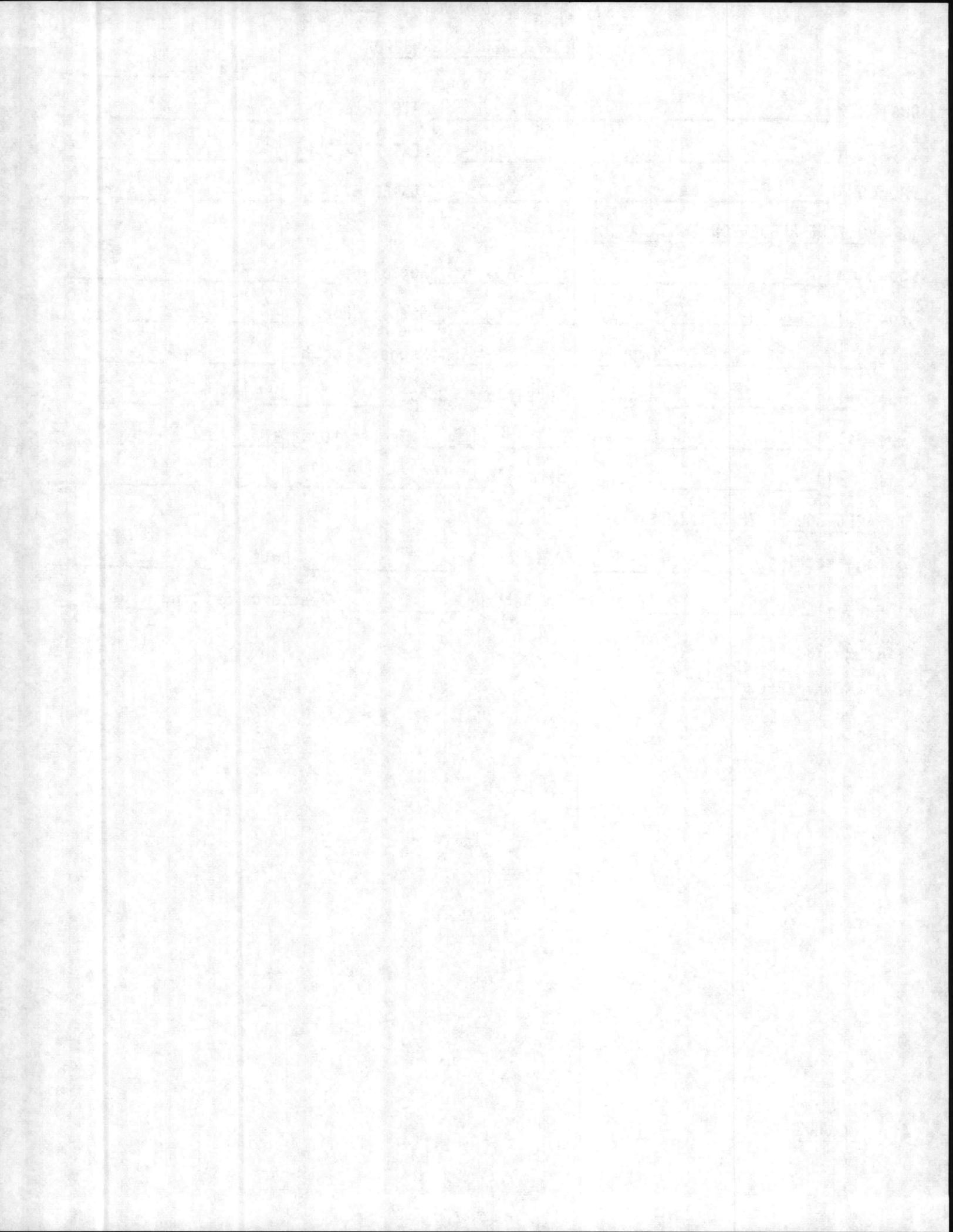
Voltage setting _____ Bandwidth: Top _____ Bottom _____

Time Delay _____ Resistance Setting _____ Reactance Setting _____

P.T. Ratio: ..

III. WORK PERFORMED

IV. REMARKS



ATTACHMENT 3-ES 2.

VOLTAGE REGULATOR OIL TEST

JOB NO. _____

CUSTOMER _____ DATE OF TEST _____

CUSTOMER P.O. NO. _____ NEXT TEST DUE _____

LOCATION _____ TESTED BY _____

PROCEDURE _____

I. VOLTAGE REGULATOR INFORMATION

Location _____ KVA _____ Serial No. _____

Mfg. _____ Type _____ Top Sample _____ Bottom Sample _____

Volts _____ Amps _____ % Range: Boost _____ Buck _____

Other Information _____ Type Oil _____

No. of Tanks _____ Gals. per Tank: Tap Changer _____ Main Tank _____

II. TEST RESULTS

A. Dielectric Strength

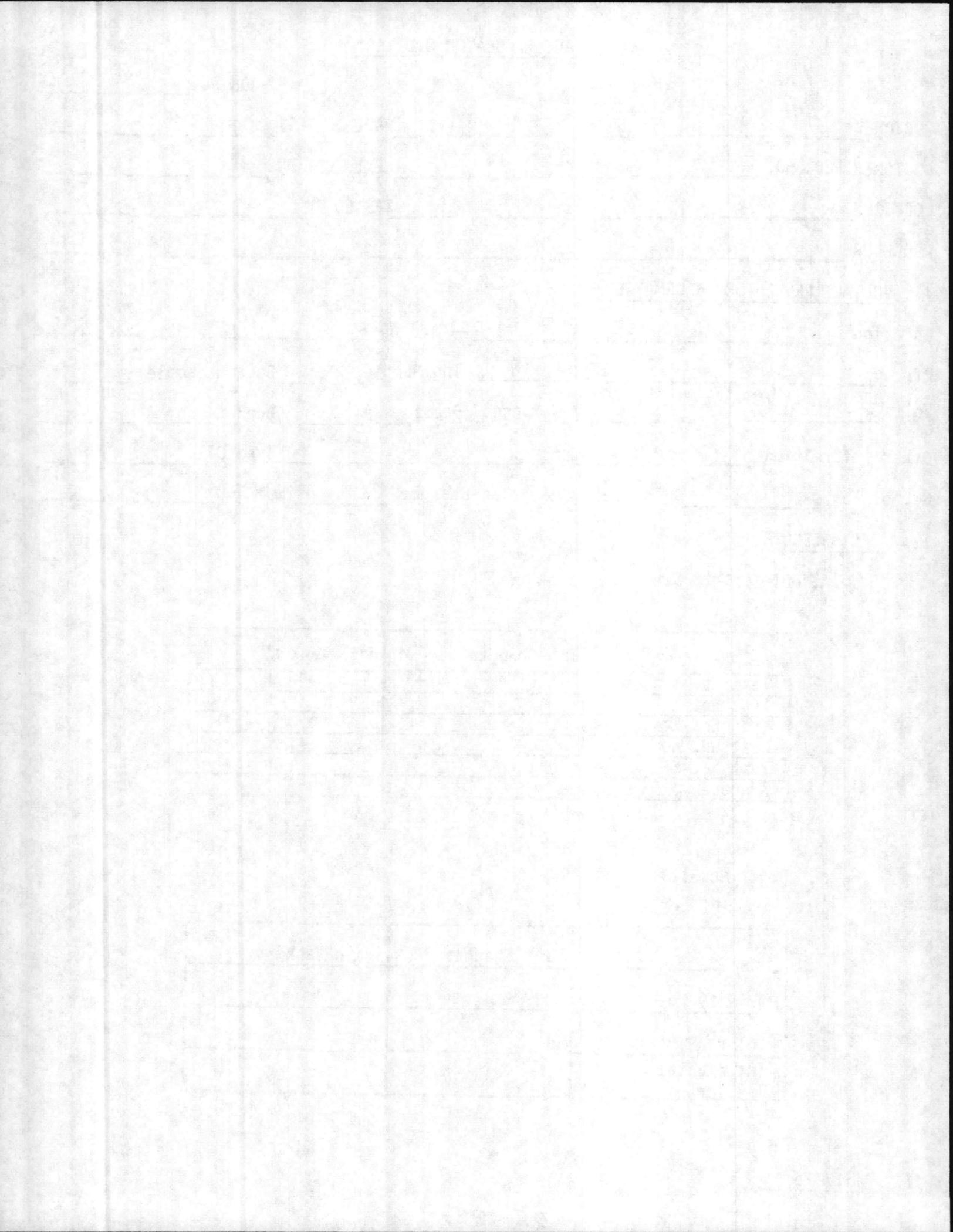
	Tap Changer KV	Main Tank KV
Test No. 1		
Test No. 2		
Test No. 3		
Test No. 4		
Test No. 5		
Average		

B. Other Results

	Tap Changer	Main Tank
Acidity No.		
Color ASTM #		
Interfacial Tension		

III. REMARKS

05-85-6332



ATTACHMENT J-5 d.

OIL CIRCUIT BREAKER TEST REPORT

JOB NO. _____

Customer _____ Date of Test _____

Customer P. O. No. _____ Next Test Due _____

Location _____ Tested By _____

Procedure _____

1. BREAKER INFORMATION

Breaker No. _____ Feeder _____ Location _____

Bkr. Mfg. _____ Bkr. Type _____ Serial No. _____

Bkr. Rating _____ Interrupting capacity _____

Phase Relays _____

Ground Relays _____

Other Relays _____

See Relay Test Reports _____ Inst. Book _____

Closing Coil _____ Trip Coil _____

2. INSPECTION CHECK LIST

Arc chutes cleaned _____ Condition _____

Condition of contacts: _____

Contact alignment and pressure _____ Contacts cleaned _____

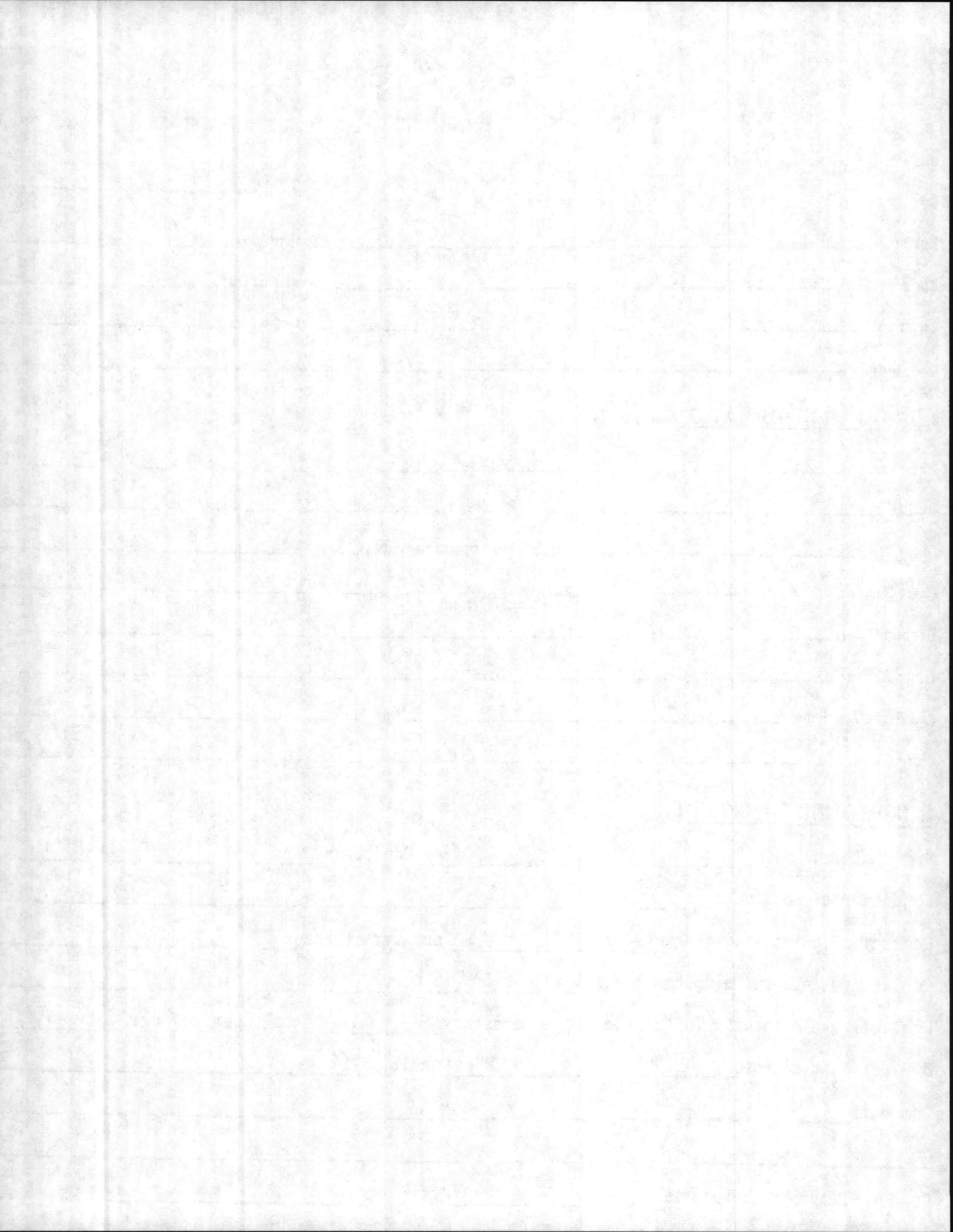
Contact resistance (microhms): L.P. _____ C.P. _____ R.P. _____

Contacts and mechanism lubricated where necessary _____ Manual Oper. of Bkr. _____

Breaker tank cleaned _____ Condition _____

Comments _____

Counter Reading: Before test _____ After test _____



ATTACHMENT J-C5 d.

3. BREAKER OPEN

Readings Between Line Side and Load Side

L.P. _____ C.P. _____ R.P. _____

Line Side

Load Side

L.P. to Frame

C.P. to Frame

R.P. to Frame

L.P. to C.P.

L.P. to R.P.

R.P. to C.P.

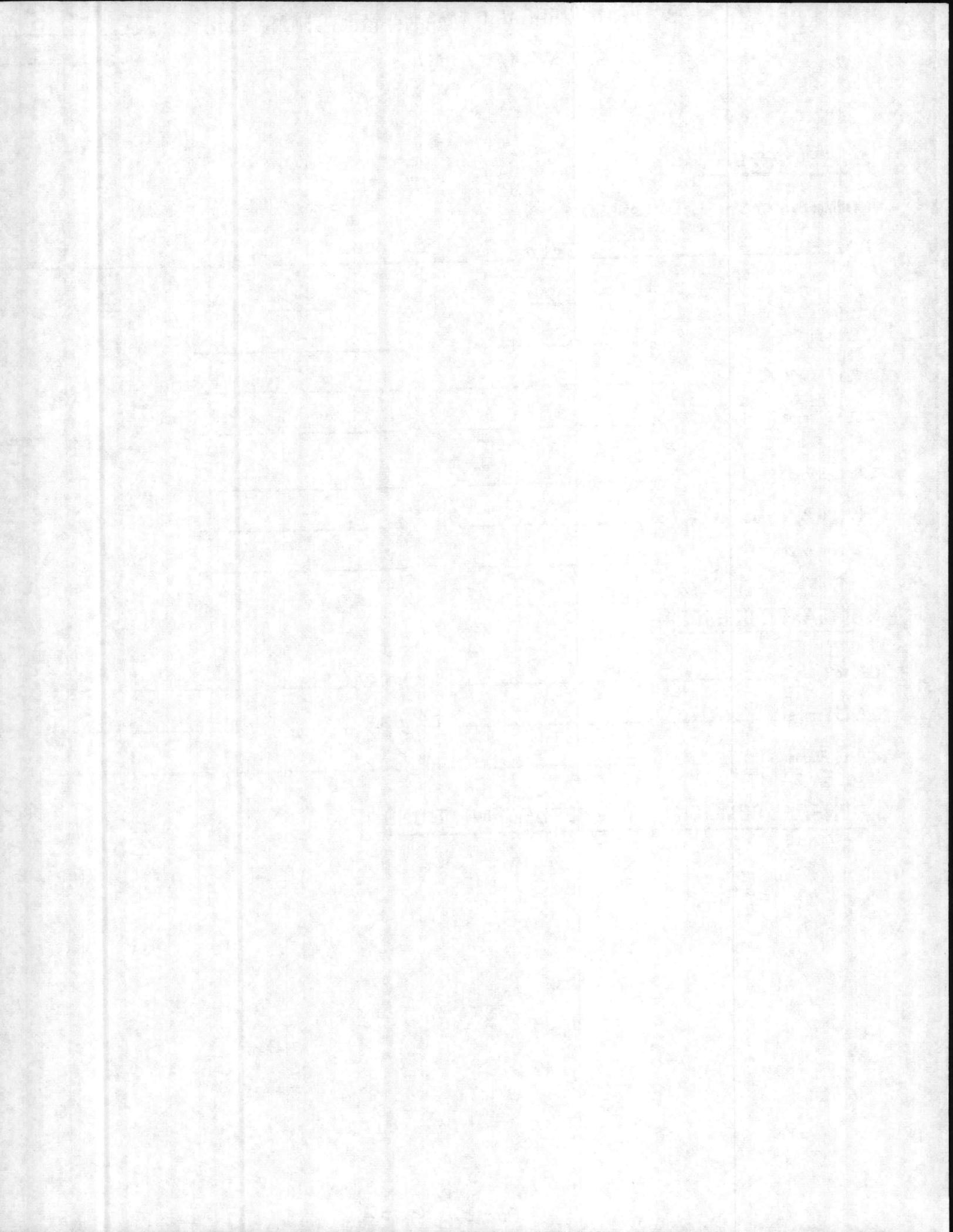
4. BREAKER CLOSED

L.P. to Frame _____ L.P. to C.P. _____

C.P. to Frame _____ L.P. to R.P. _____

R.P. to Frame _____ R.P. to C.P. _____

5. GENERAL COMMENTS AND RECOMMENDATIONS



OIL CIRCUIT BREAKER OIL TEST

JOB NO. _____

CUSTOMER _____ DATE OF TEST _____

CUSTOMER P.O. NO. _____ NEXT TEST DUE _____

LOCATION _____ TESTED BY _____

PROCEDURE _____

I. OIL CIRCUIT BREAKER INFORMATION:

Breaker No. _____ Feeder _____ Location _____

Mfg. _____ Type _____ Serial No. _____

Breaker Rating _____ Type Oil _____

Other Information _____

No. of Tanks _____

II. TEST RESULTS

A. Dielectric Strength

NEW OIL

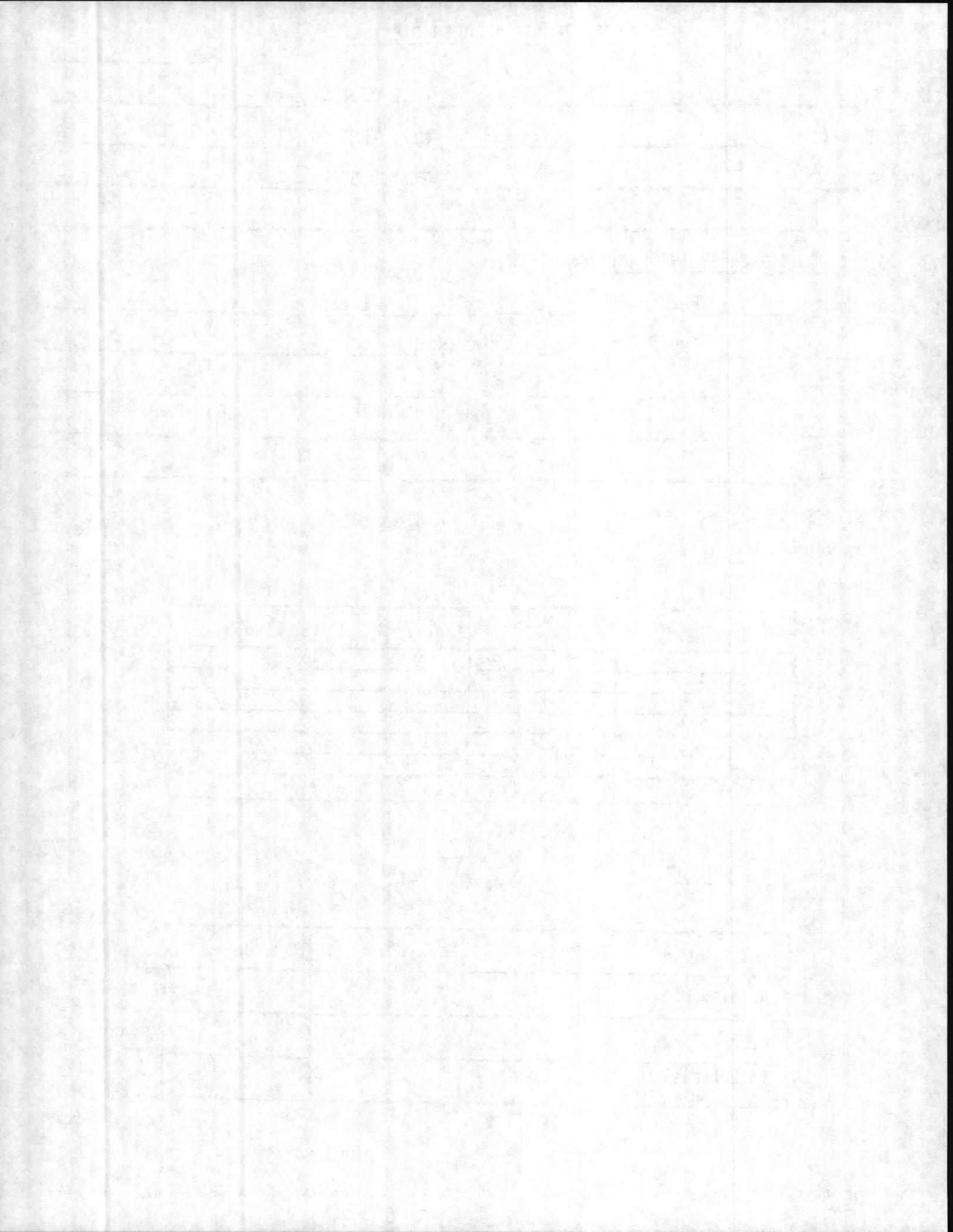
	Tank No.1	Tank No.2	Tank No.3
	KV	KV	KV
Test No.1			
Test No.2			
Test No.3			
Test No.4			
Test No.5			
Average			

B. Other Results

	Tank No.	Tank No.	Tank No.
Acidity No.			
Color ASTM #			
Interfacial Tension			

III. REMARKS

05-85-6332



ATTACHMENT J-C5E.
POLE MOUNTED RECLOSER

JOB NO. _____

Customer _____ Date of Test _____

Customer P. O. No. _____ Next Test Due _____

Location _____ Tested By _____

Procedure _____

1. RECLOSURE INFORMATION

Location No. _____ Cubicle No. _____ Location _____

Bkr. Mfg. _____ Bkr. Type _____ Serial No. _____

Bkr. Rating _____ Interrupting capacity _____

Phase Relays _____

Ground Relays _____

Other Relays _____

See Relay Test Reports _____ Inst. Book _____

Closing Coil _____ Trip Coil _____

2. INSPECTION CHECK LIST

Arc chutes cleaned _____ Condition _____

Condition of contacts: Main _____ Arcing _____

Contact alignment and pressure _____ Contacts cleaned _____

Main contact resistance (microhms): L.P. _____ C.P. _____ R.P. _____

Breaker and tank cleaned _____ Condition _____

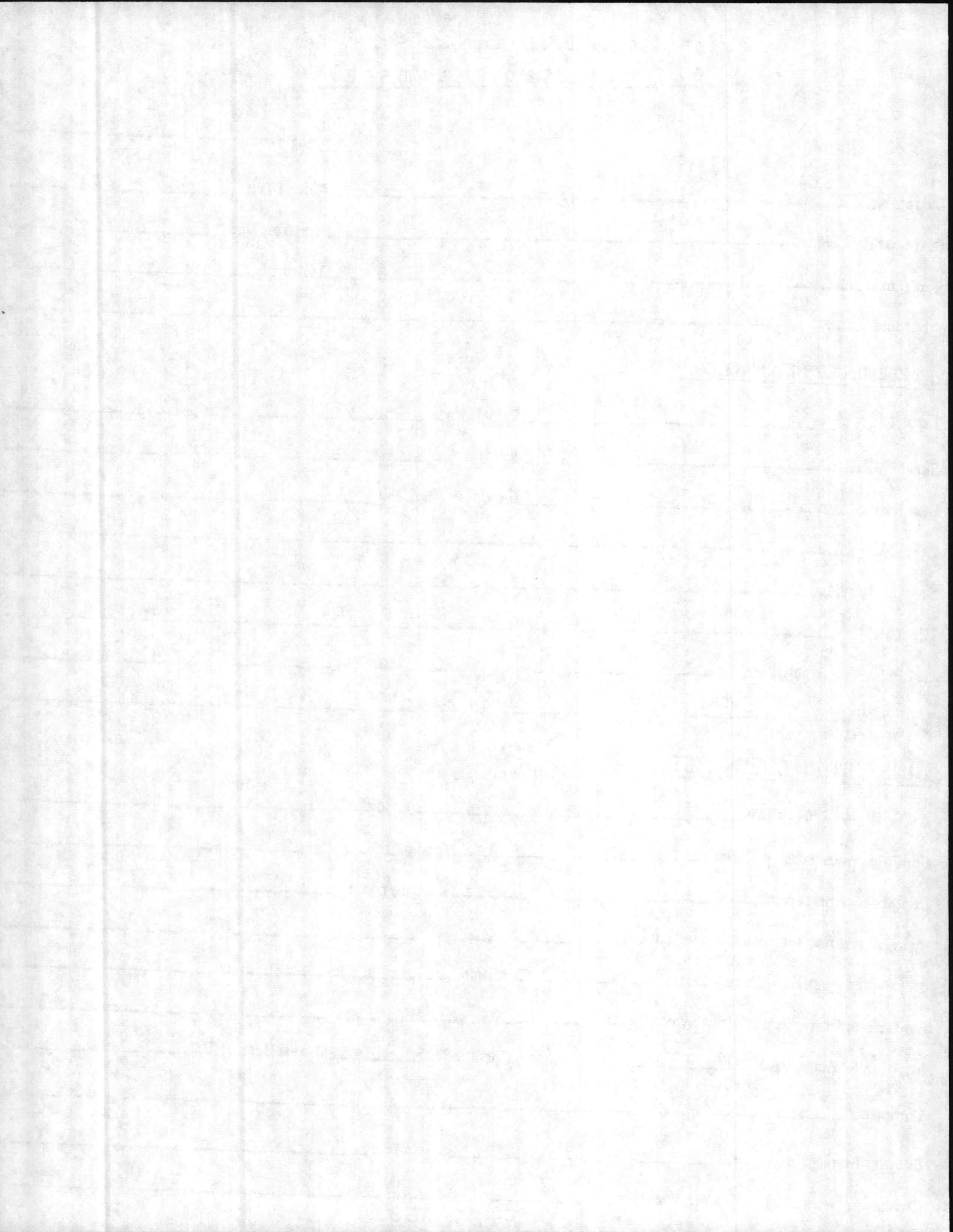
Contacts and mechanism lubricated where necessary _____

Insertion & Withdrawal of Bkr. _____ Shutter Operation _____ Manual Oper. of Bkr. _____

Comments _____

Counter-Reading: Before Test _____ After Test _____

Breaker tripped through each protective relay _____



3. BREAKER OPEN

Readings Between Line Side and Load Side

L.P. _____ C.P. _____ R.P. _____

Line Side

Load Side

L.P. to Frame

C.P. to Frame

R.P. to Frame

L.P. to C.P.

L.P. to R.P.

R.P. to C.P.

4. BREAKER CLOSED

L.P. to Frame

L.P. to C.P.

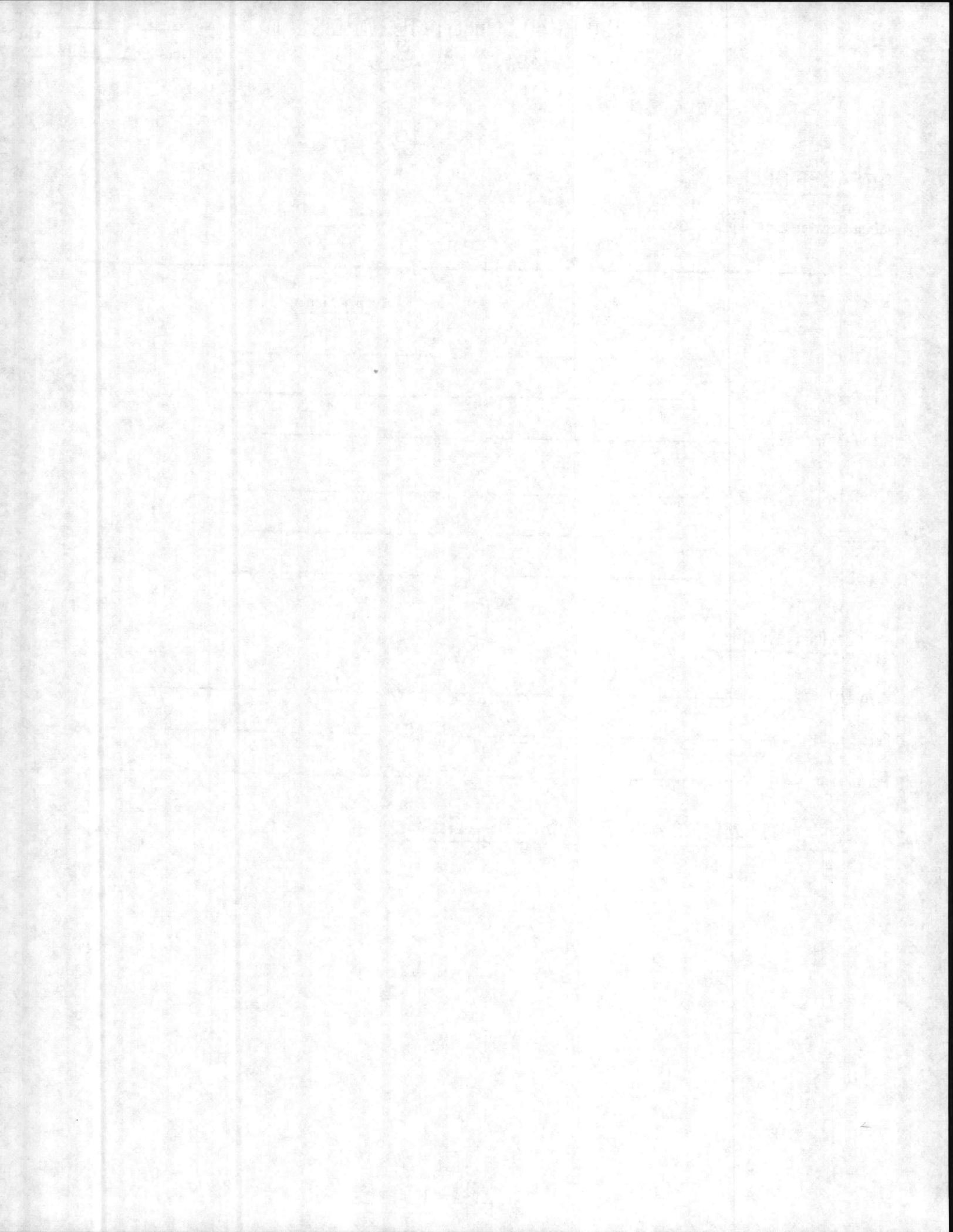
C.P. to Frame

L.P. to R.P.

R.P. to Frame

R.P. to C.P.

5. GENERAL COMMENTS AND RECOMMENDATIONS



RECLOSER OIL TEST

JOB NO. _____

CUSTOMER _____ DATE OF TEST _____

CUSTOMER P.O. NO. _____ NEXT TEST DUE _____

LOCATION _____ TESTED BY _____

PROCEDURE _____

I. RECLOSURE INFORMATION

Location _____ Breaker Rating _____

Mfg. _____ Type _____ Serial No. _____

Serving _____

Other Information _____

No. of Tanks _____

II. TEST RESULTS

A. Dielectric Strength:

NEW OIL

	KV
Test No. 1	
Test No. 2	
Test No. 3	
Test No. 4	
Test No. 5	
Average	

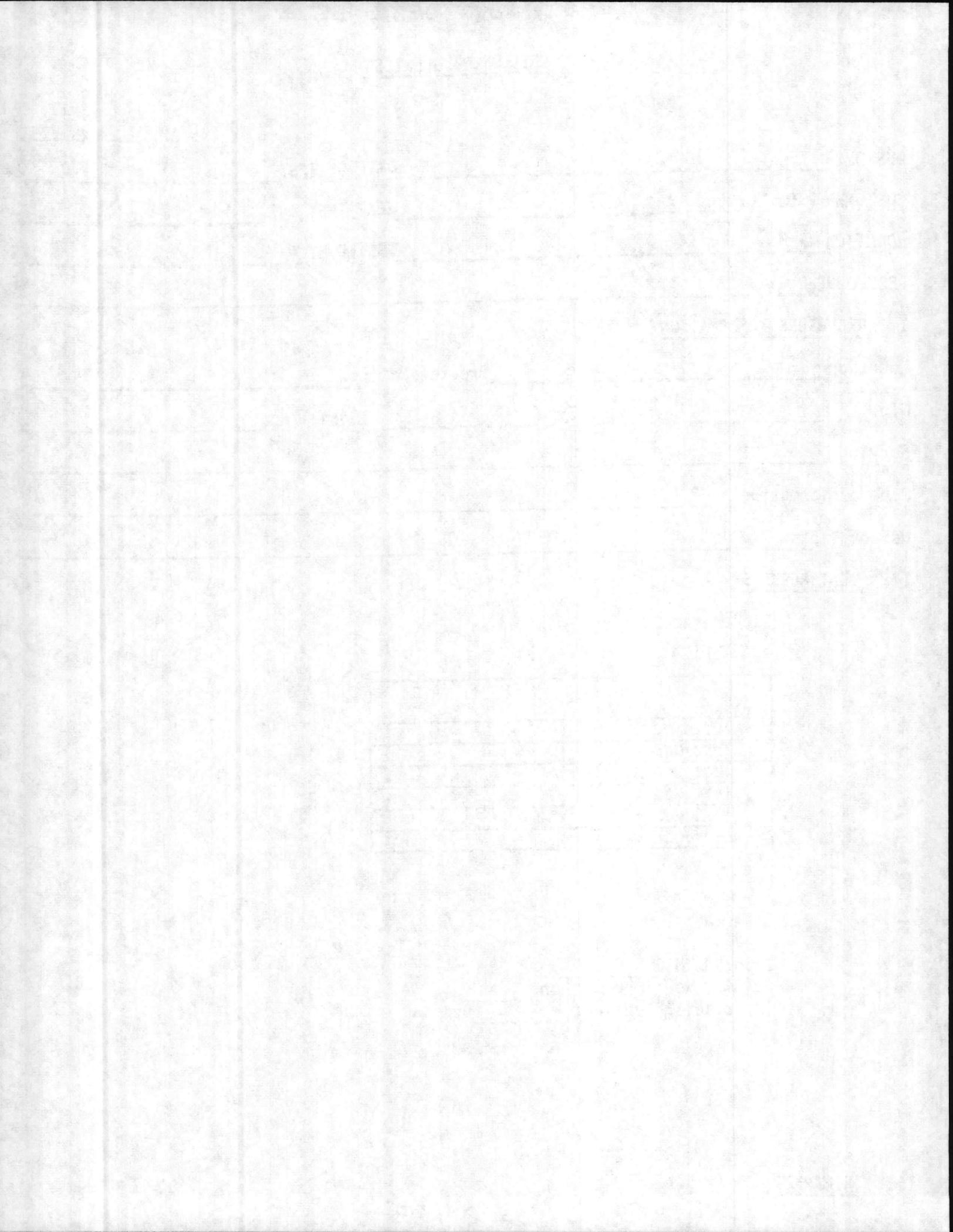
B. Other Results:

Color ASTM # _____

Acidity No.: Less than _____

Interfacial Tension: _____ Dynes

III. REMARKS



SECTION J

ATTACHMENT J-C6a

EQUIPMENT LIST - MEDIUM-VOLTAGE ELECTRICAL DISTRIBUTION SYSTEM
(Requiring Testing)

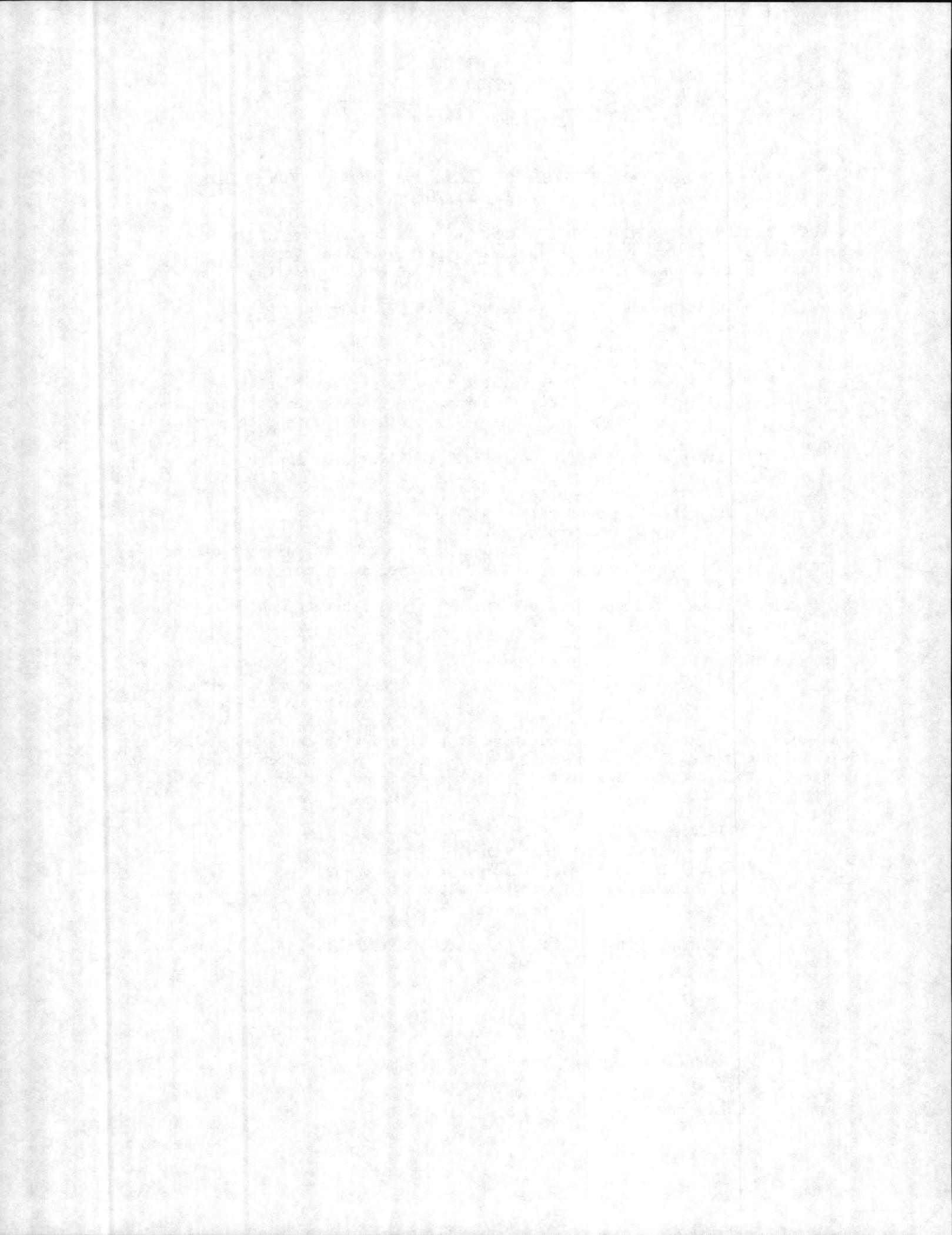
a. CAMP LEJEUNE MAIN SWITCHING STATION. Main Switching Station is an outdoor, 12.47Y/7.2 kilovolt, three-phase, open-type steel structure with main & bypass aluminum buses & consists of the following medium-voltage breakers:

1. (3) Westinghouse Type 144 GC500, 15.5 KV, 1200 Amp. Oil Circuit Breakers, each with
 - (3) CO-9 relays,
 - (1) CO-8 ground relay
 - (1) Type RC reclosing relay & Type RC reclosing relay
 - (1) Three-Phase kilowatt hour meter with instrument transformers, demand register, pulse initiator, and remote rate meter.
2. (1) Siemens-Allis Type SDO-15-500, 14.4 KV, 1200 Amp. Oil Circuit Breaker with
 - (3) IAC-77 phase relays,
 - (1) IAC-77 ground relay
 - (1) Type ACR reclosing relay
 - (1) Three-phase kilowatt hour meter with instrument transformers, demand register, pulse initiator, and remote rate meter.
3. (7) Square D 1200 Amp, Type F8, SF6 circuit breakers with
 - (1) ITE - 51E Three-Phase Relay
 - (1) ITE - 51E Ground Relay
 - (1) ITE - 74M Reclosing Relay
 - (1) Three-Phase kilowatt hour meter with instrument transformers, demand register, pulse initiator, and remote rate meter.

Each Medium-Voltage Breaker listed above is equipped with Isolating Knife Switches & a Bypass Gang-Operated Air-Break Switch. Main Switching Station is provided with a Differential Protection Scheme and consists of the following:

- (3) CA-16 Relays
- (1) Power Factor Meter
- (1) Type WL Relay
- (2) Type MG-6 Auxilliary Relay
- (6) Impedance Matching Instrument Transformer
- (1) Three-Phase kilowatt hour meter with demand register, pulse initiator, and remote rate meter.

(a) REGIMENTAL FEEDER NO. 1. Consists of the following Electrical Equipment:



- Breaker No. 21 - General Electric Type FK-23-500-1, 1200 Amp.
Oil Blast Circuit Breaker with
 - (3) IAC-51 relays,
 - (1) IAC-51 ground relay,
 - (1) Type ACR reclosing relay.
- Breaker No. 22 - Same as Breaker No. 21
- Breaker No. 23 - Same as Breaker No. 21
- Breaker No. 24 - Same as Breaker No. 21
- Breaker No. 25 - ITE Type 14.4 KS 500-12D, 15.5 KV, 1200 Amp. Oil
Blast Circuit Breaker
 - (3) CO-11 phase relays,
 - (1) CO-11 ground relays.

(b) PARADISE POINT FEEDER. Consists of the following Electrical
Equipment:

- Regulator No. P-1 Allis Chalmers Type Class PA 1000 KVA, 13.2 KV
Three-Phase Voltage Regulator.
- Breaker No. 41 - General Electric Type FK-23-500-1, 1200 Amp. Oil
Blast Circuit Breaker with
 - (3) SFC-177 BGA phase relays, &
 - (1) SFC-177 B3A ground relay
 - (1) Type ACB reclosing relay
- Breaker No. 42 - (At Paradise Pt. #1 Substation) Westinghouse Type
144 GC250, 600 Amp. Grid Oil Circuit Breaker with
 - (3) CO-9 phase relays,
 - (1) CO-9 ground relay, & Type RC reclosing relay.
 - (1) Type RC reclosing relay
- Substation - Paradise Point #1
 - (2) Westinghouse Type SL 1000 KVA, 13.2 KV
distribution transformers
 - (1) Square D 1000 KVA, 13.2 - 2.4 KV
distribution transformer
- Breaker No. 43 - (At Paradise Pt. #2 Substation) General Electric
Type FKD-15.5-18000-5, 1200 Amp. Oil Blast Circuit
Breaker with
 - (3) SFC-177 B6A phase relays,
 - (1) SFC-177 B3A ground relays,
 - (1) Type NLR reclosing relay.
- Substation - Paradise Point #2
 - (3) Allis-Chalmers 1000 KVA, 13.2 - 2.4 KV
distribution transformers

(c) RIFLE RANGE FEEDER. Consist of the following Electrical Equipment:

Breaker No. 31 - General Electric Type FKD-15.5 - 18000-5, 1200 Amp.
Oil Blast Circuit Breaker with
(3) SFC-177 B6A phase relays,
(1) SFC-177 B3A ground relays,
(1) Type NLR reclosing relay.

Regulator RR-2 - General Electric Type TML 32, 750 KVA, 13.2 KV,
Three-Phase Voltage Regulator

Breaker No. 34 - Siemens-Allis Type 600 Amp.15KV, Vacuum Circuit
Breaker
with
(3) CO-11 phase relay
(1) CO-11 ground relay
(1) Type RC reclosing relay

Regulator RR-3 - General Electric Type MLT 32, 500 KVA, 13.2 KV
Three-Phase Voltage Regulator

Breaker No. 35 - General Electric Type FKD 15.5 - 18000-5, 1200 Amp.
Oil Blaset Circuit Breaker with
(3) SFC-177 B6A phase relays,
(1) SFC-177 B3A ground relay,
(1) Type NLR reclosing relay.

Breaker No. 36 - General Electric Type FKD 15.5 - 18000-5, 1200 Amp.
Oil Blaset Circuit Breaker with
(3) SFC-177 B6A phase relays,
(1) SFC-177 B3A ground relay,
(1) Type NLR reclosing relay.

Recloser - McGraw-Edison Pole-Mounted Type W, 15.5KV, 100Amp

(d) CAPEHART FEEDER. Consists of the following Electrical Equipment:

Regulator C-1 - General Electric Type MLT 32, 2000 KVA, 13.8 KV
Three-Phase Voltage Regulator.

Breaker No. 61 - Square D Type 600 Amp.15KV,SF6 Breaker with
(3) ITE 51E phase relays
(1) ITE 51E ground relay
(1) ITE 74M Reclosing Relay
(1) Three-Phase kilowatt hour meter with
demand register and instrument transformers

Recloser - (3) McGraw-Edison Cross Arm Mounted
Type L Single-Phase

- (e) FRENCH CREEK FEEDER. Consists of the following Electrical Equipment:

Regulator FC-1 - Allis-Chalmers Type OA 1500 KVA, 13.8 KV Three-Phase Voltage Regulator.

Recloser - McGraw-Edison Pole-Mounted Three-Phase Type WE

Recloser - McGraw-Edison Pole-Mounted Three-Phase Type RX

- (f) REGIMENTAL FEEDER NO. 2. Consists of the following Electrical Equipment:

Breaker No. 81 - General Electric Type FK-23-500-1, 1200 Amp. Oil Blast Circuit Breaker with

- (3) IAC-51 relays,
- (1) IAC-51 ground relay,
- (1) Type ACR reclosing relay.

Breaker No. 82 - Same as Breaker No. 81

Breaker No. 83 - Same as Breaker No. 81

- (g) MIDWAY PARK/MONTFORD POINT FEEDER. Consists of the following Electrical Equipment:

Regulator MM-1 - Siemens-Allis Type SFR 1500 KVA, 13.2 KV Three-Phase Voltage Regulator

Recloser - Midway Park: (1) McGraw-Edison Pole-Mounted Three-Phase Type RX

Recloser - Midway Park: (6) McGraw-Edison Pole-Mounted Single-Phase Type L

Regulator MM-2 - General Electric Type TMLT 32, 750KVA, 13.2 kV Three-Phase Voltage Regulator

Breaker No. 14 - General Electric Type FKS 15.5-18000-5, 1200 Amp. Oil Blast Circuit Breaker with

- (3) SFC 177 B61 phase relays,
- (1) SFC 177 B3A ground relay,
- (1) Type NLR reclosing relay.

- (h) HOSPITAL FEEDER.

Recloser - McGraw-Edison Pole-Mounted Three-Phase Type WE

Breaker No.113 - Square D Type 600 Amp. SF6 Breaker with
(3) ITE 51E phase relays,
(1) ITE 51E ground relay.
(1) ITE 79M Reclosing Relay
(1) Three-Phase kilowatt meter with demand meter,
and instrument transformers

(i) LOT 140, STORAGE YARD

Regulator - Allis-Chalmers Type SFR 500KVA, 13.2KV Three-Phase
Voltage Regulator

b. NEW RIVER AIR STATION MAIN SWITCHING STATION. Main Switching
station is an outdoor, 12.47Y/7.2 Kilovolt, Three-Phase, Open-Type
steel Structure with Main & Bypass Aluminum Buses and consists of
the following Electrical Equipment:

Main Station Breaker - McGraw-Edison 15.5KV, 1200Amp Vacuum Breaker with
(3) IAC 53 Phase Relays
(1) IAC 53 Ground Relay

Regulator (1) General Electric Type TMLT 32, 1500 KVA, 13.2 KV
Three-Phase Voltage Regulator

Regulator (1) General Electric Type MLT 32, 750 KVA, 12 KV
Three-Phase Voltage Regulator

Breaker No. 1 - Siemens-Allis Type SDO-15-250, 600 Amp. Oil
Circuit Breaker with
(3) IAC-77 phase relays,
(1) IAC-77 ground relay,
(1) Type ACR releasing relay.
(1) Three-Phase kilowatt hour meter with instrument
transformers, pulse initiator, and remote rate meter.

Breaker No. 2 - General Electric Type FGD 15.5-18000-4, 1200 Amp.
Oil Blast Circuit Breaker with
(3) IAC-53 phase relays,
(1) IAC-53 ground relay,
(1) Type ACR reclosing relay.
(1) Three-Phase kilowatt hour meter with instrument
transformers, pulse initiator, and remote rate meter

Breaker No. 3 - General Electric Type FGD 15.5-18000-5, 1200 Amp.
Oil Blast Circuit Breaker with
(3) IAC-53 phase relays,
(1) IAC-53 ground relay,
(1) Type ACR reclosing relay.
(1) Three-Phase kilowatt hour meter with instrument
transformers, pulse initiator, and remote rate meter

Breaker No. 4 - General Electric Type FGD 15.5-18000-5, 600 Amp.
Oil Blast Circuit Breaker with
(3) IAC-51 phase relays,
(1) IAC-51 ground relay,
(1) Type ACR reclosing relay.

Breaker No. 5 - Siemens-Allis Vacuum Breaker Type BCM-15-M-SOV with:
(3) CO-11 Phase Relays
(1) CO-11 Ground Relay
(1) Type RC Recloser Relay

Station Meters - (3) Three-Phase kilowatt meter with demand registers,
and instrument transformers

Each Medium-Voltage Breaker is equipped with Isolating and Bypass Switches.

1. NEW RIVER FEEDER NO. 1.

Recloser - McGraw-Edison Pole-Mounted Three-Phase

Recloser - McGraw-Edison Pole-Mounted Three-Phase

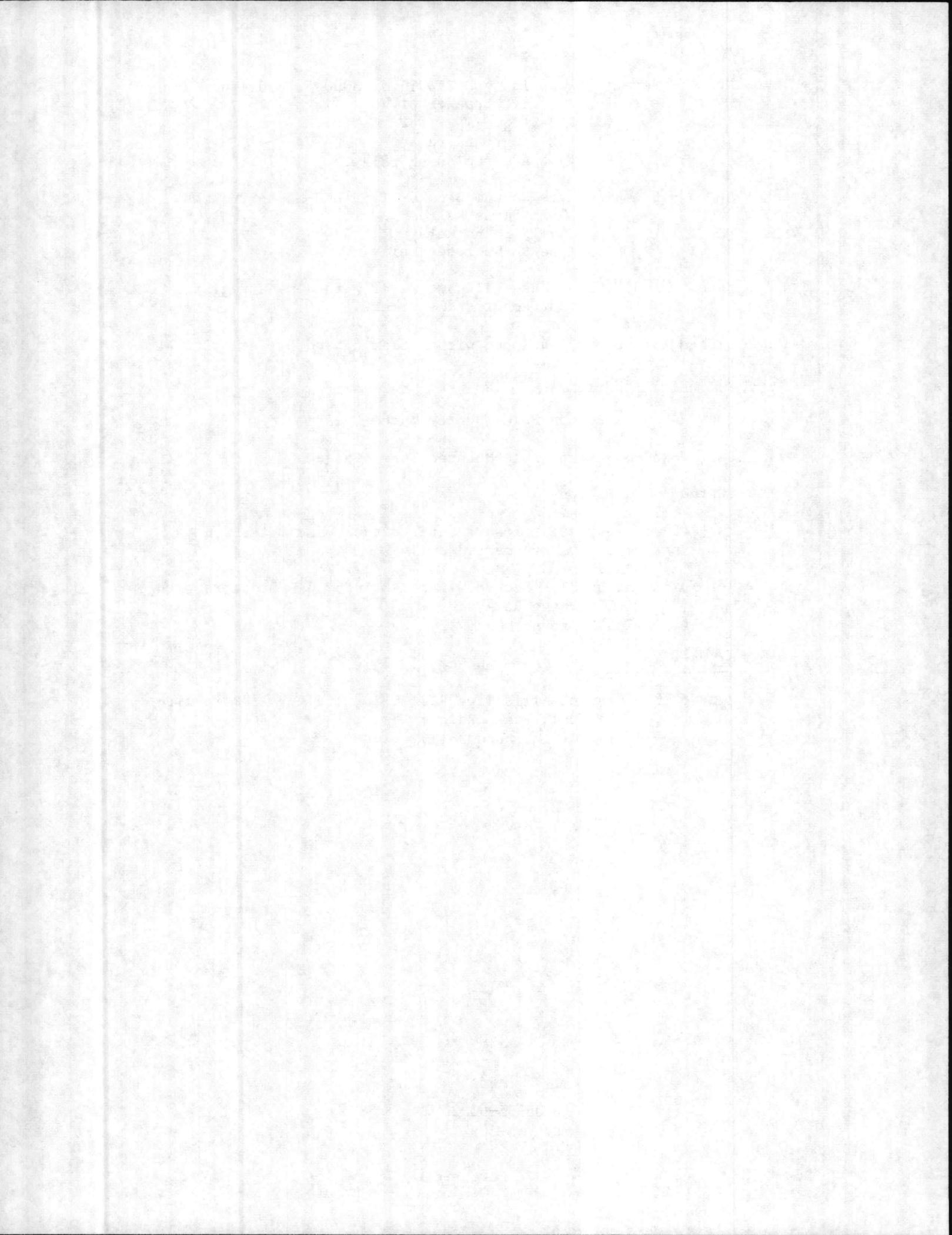
Oil Switch - G & W Type

Meters - (2) Three-Phase kilowatt meter with demand meter and
instrument transformers.

Breaker No.31 and No.32 - Square D Type FB, SF6, 6AS Breakers with
(3) ITE 51E Phase Relays
(1) ITE 51E Ground Relay

2. NEW RIVER FEEDER NO.2

Breaker No.10 - Siemens-Allis Type SDV-15-20, 14.4KV, 1200Amp with
(3) CO-11 Phase Relays
(1) CO-11 Ground Relay



SECTION J

ATTACHMENT J-C6b

EQUIPMENT LIST

Medium- and Low-Voltage Electrical Distribution and Utilization Systems
at Naval Hospital

a. Two FPE Double-Ended Unit Type Substation Switchgear
(See Attachment J-9 & J-10)

1. Key Interlock System
2. (8) 600 Amp, 12.47kV, 3PST Interrupter Switches
3. (4) 2500kVA, 12470 480/277 Volt Three-Phase Liquid-Filled Transformers
4. 600 Volt Two-Level Ground Fault Systems
5. 600 Volt Drawout Power Circuit Breakers with long time, short time, instantaneous and ground sensing solid state trip Devices and ratings as indicated and as follows:
 - (4) 4000 Amp mains, Electrically-Operating each Substation
 - (28) 600 Amp Branches, Manually-Operated (Total)
 - (2) 1000 Amp Branches, Manually-Operated (Total)
6. Indicating instruments including switches associated with each 600 Volt circuit.

b. Russelectric Generator Control and Synchronizing Switchgear and Emergency Switchboard and Consisting of: (See Attachment J-10)

1. (3) Engine-Generator Control Panels with 2000Amp, 600 Volt Drawout Power Circuit Breaker Electrically-Operated with overcurrent and short circuit trips and reverse power relays, and associated control switches, indicating instruments, voltage and frequency regulating equipment for automatic and manual operation of emergency power and system.

2. Master Control Cubicle with (3) Automatic Synchronizers, Manual Paralleling Permissive Relay, Master Control and Synchronizing Relay Panel, Synchronising Lamps, Synchroscope, Indicating Instruments, Control Switches, and Station Alarm Horn including Failure Lights.

3. (14) 600 Volt Drawout Power Circuit Breakers, Manually-Operated, with long time, short time, instantaneous and ground sensing solid state trip devices.

4. Indicating Instruments including switches associated with each 600 Volt circuit.

5. Load shedding and restoring control scheme including associated components

c. Automatic Transfer Switches

Ruselectric Automatic Transfer Switches and Switchgear

Consisting of:

1. (8) Model RMT - 6003CE; 600Amp, 480 Volt; Three-Phase, Three-Wire and each with Load-Break Bypass and Isolation Switches, Associated Interlock Control, and Relay Components.
2. (6) Model RMT - 6004CE; 600 Amp, 480 Volt, Three-Phase, Four-Wire and each with Load-Break Bypass, and Isolation Switches, Associated Interlock, Control, and Relay Components.

CHECKED BOX APPLIES ORDER FOR SUPPLIES OR SERVICES REQUEST FOR QUOTATIONS NO. RETURN COPIES OF THIS QUOTE BY (THIS IS NOT AN ORDER. See DD Form 1155r)

1. CONTRACT/PURCH ORDER NO. 2. DELIVERY ORDER NO. 3. DATE OF ORDER 4. REQUISITION/PURCH REQUEST NO.

5. ISSUED BY: CODE 6. ADMINISTERED BY: (If other than 6) CODE 7. DELIVERY FOB DESTINATION OTHER (See Schedule if other)

8. CONTRACTOR/QUOTER CODE 9. FACILITY CODE 10. DELIVER TO FOB POINT BY 11. CHECK IF SMALL BUSINESS

NAME AND ADDRESS 12. DISCOUNT TERMS 13. MAIL INVOICES TO

14. SHIP TO: CODE 15. PAYMENT WILL BE MADE BY: CODE

MARK ALL PACKAGES AND PAPERS WITH CONTRACT OR ORDER NUMBER

16. TYPE OF ORDER: DELIVERY PURCHASE

This delivery order is subject to instructions contained on this side of form only and is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract.

Reference your _____, furnish the following on terms specified herein, including; for U. S. purchases, General Provisions of Purchase Order on DD Form 1155r (Except CLAUSE NO. 13 APPLIES ONLY IF THIS BOX IS CHECKED, and NO. 16 IF THIS BOX IS CHECKED); special provisions _____; and delivery as indicated. This purchase is negotiated under authority of 10 USC 2304(a)(3) or as specified in the schedule if within the U. S., its possessions or Puerto Rico; if otherwise, under 2304(a)(6). If checked, Additional General Provisions apply; Supplier shall sign "Acceptance" on DD Form 1155r and return _____ copies.

17. ACCOUNTING AND APPROPRIATION DATA - ACCOUNTING CLASSIFICATION (REV. 7-65)

ITEM NO.	APPROPRIATION SYMBOL AND SUBHEAD	OBJECT CLASS	BUREAU CONT. NO.	SUB-ALLOT.	AUTH'N ACCT'G ACTY	TRANS. TYPE	PROPERTY ACCT'G ACTY	COUNTRY	COST CODE	AMOUNT

18. ITEM NO.	19. SCHEDULE OF SUPPLIES/SERVICES	20. QUANTITY ORDERED/ACCEPTED*	21. UNIT	22. UNIT PRICE	23. AMOUNT

24. UNITED STATES OF AMERICA

BY: _____ CONTRACTING/ORDERING OFFICER

25. TOTAL _____

26. QUANTITY IN COLUMN 20 HAS BEEN: RECEIVED INSPECTED ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED

27. SHIP. NO. FINAL PARTIAL

28. D.G. VOUCHER NO. _____

29. DIFFERENCES _____

30. INITIALS _____

31. PAYMENT COMPLETE PARTIAL FINAL

32. PAID BY _____

33. AMOUNT VERIFIED CORRECT FOR _____

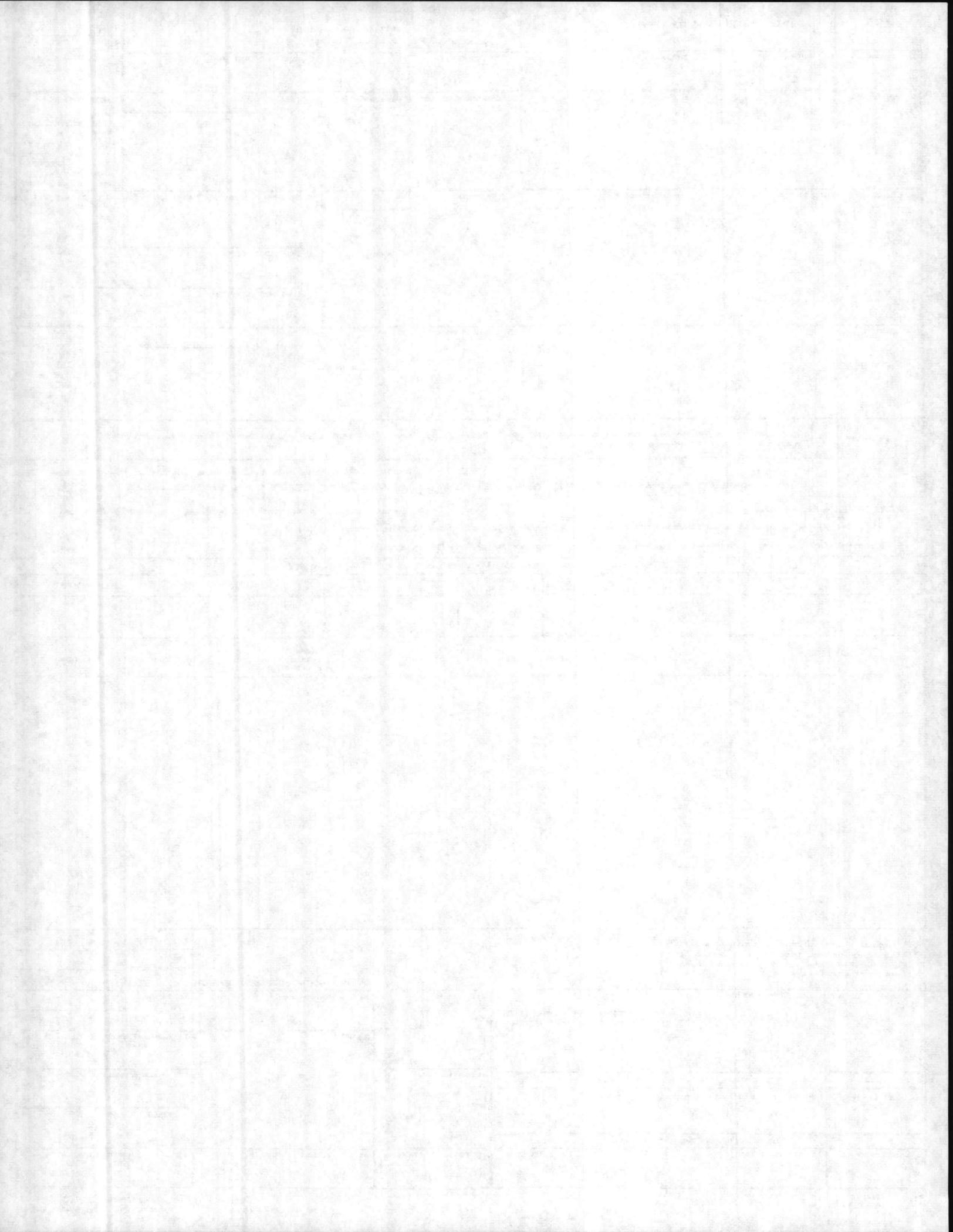
34. CHECK NUMBER _____

35. BILL OF LADING NO. _____

36. I CERTIFY that this account is correct and proper for payment _____ (Signature and title of Certifying Officer)

37. RECEIVED AT _____ 38. RECEIVED BY _____ 39. DATE RECEIVED _____

40. TOTAL CONTAINERS _____ 41. S/R ACCOUNT NUMBER _____ 42. S/R VOUCHER NO. _____



SECTION J

ATTACHMENT J-G2

INVOICING INSTRUCTIONS

A. INVOICES

1. The Contractor shall submit invoices monthly to the following address:

OICC/ROICC
Building 1005
Marine Corps Base
Camp Lejeune, North Carolina 28542-5000

2. Invoices shall be properly dated and be identified by the contract number.

3. The total amount invoiced shall be subdivided into the following two categories by this contract:

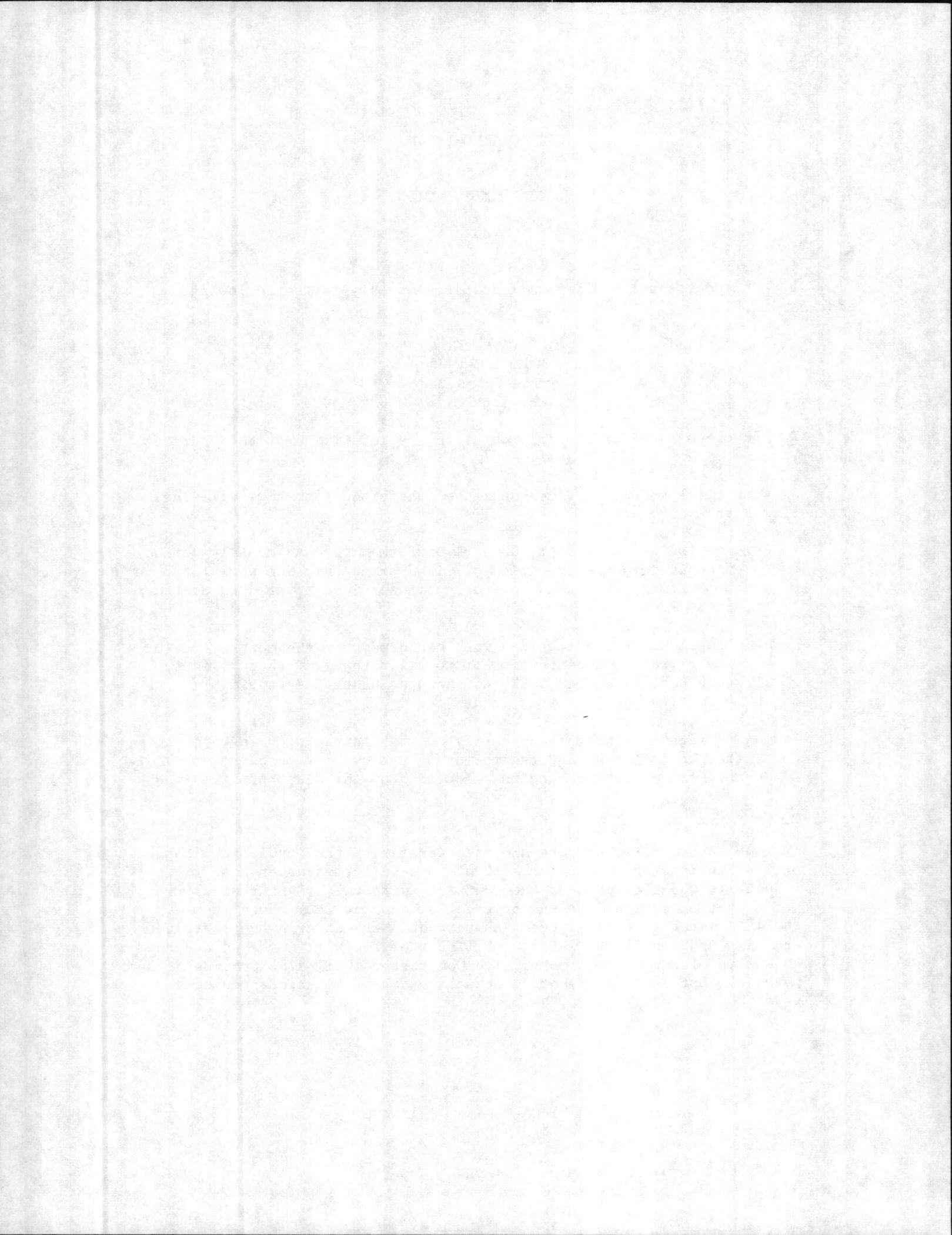
a) An amount to reflect the work performed for the monthly period involved in the execution of fixed price Lump Sum work for operations, maintenance and repair services covered by Contract Line Item 0001

b) An amount to reflect the work performed for the monthly period involved in the execution of specific repair work covered by Contract Line Item 0002 and executed under the Indefinite Quantity portion of the contract.

4. All offers of discounts appearing on the Contractor's invoice, no matter how affixed, and regardless of the type of purchase, shall be considered as authorizing the deduction of the discount if earned.

B. OTHER DOCUMENTS

1. The Contractor shall prepare and submit with the invoice two copies of the listing for each occurrence of work performed under the Indefinite Quantity part of the contract, with the original work authorization attached to the original of the invoice. Each item shall be identified by contract number, delivery order number, title, starting and completion dates, total cost of the work involved and the amount invoiced for the month. The Contractor shall also provide actual material cost invoices denoting actual costs for materials replaced under 0002.



B. OTHER DOCUMENTS (Continued)

2. The Contractor shall prepare and submit, five working days prior to the scheduled month, with the invoice a work schedule for the succeeding month for all Lump Sum work and for Indefinite Quantity Work that has been authorized and is proposed to be accomplished, or commenced in the month involved.

SECTION J

ATTACHMENT J-H1

SAFETY REQUIREMENTS

The Contractor shall comply with requirements contained in the following documents.

1. NAVMAT P-5100-23B Safety Precautions for Shore Activities.
2. DA EM 385-1-1 General Safety Requirements.
3. Occupational Safety and Health Standards.
4. U.S. Army Corps of Engineers Safety and Health Requirements Manual, EM 385-11, dated April, 1981.
5. NHCLNCINST 11320.1 Naval Hospital Fire Bill
6. BUMED 6320.4 Cardiac Arrest Teams Resuscitation Equipment Protocol.

These documents may be examined at:

Officer in Charge, Facilities Support Contracts
Building 1005
Marine Corps Base
Camp Lejeune, N.C. 28542-5000

PART IV - GENERAL INSTRUCTION

SECTION K: REPRESENTATIONS, CERTIFICATIONS AND
OTHER STATEMENTS OF BIDDERS/OFFERORS

TABLE OF CONTENTS

<u>NO.</u>	<u>FAR PROVISION NO.</u>	<u>PROVISION TITLE</u>	<u>PAGE NO</u>
K.1	52.203-2	CERTIFICATE OF INDEPENDENT PRICE DETERMINATION (APR 1985)	K-1
K.2	52-203-4	CONTINGENT FEE REPRESENTATION AND AGREEMENT (APR 1984)	K-2
K.3	52.214-2	TYPE OF BUSINESS ORGANIZATION - SEALED BIDDING (APR 1985)	K-2
K.4	52.214-8	PARENT COMPANY AND IDENTIFYING DATA (APR 1984)	K-2
K.5	52.214-16	MINIMUM BID ACCEPTANCE PERIOD (APR 1984)	K-3
K.6	52.219-1	SMALL BUSINESS CONCERN REPRESENTATION (MAY 1986)	K-3
K.7	52.219-2	SMALL DISADVANTAGED BUSINESS CONCERN REPRESENTATION (APR 1984)	K-3
K.8	52.219-3	WOMEN-OWNED SMALL BUSINESS REPRESENTATION (APR 1984)	K-4
K.9	52.220-1	PREFERENCE FOR LABOR SURPLUS AREA CONCERNS (APR 1984)	K-5
K.10	52.222-21	CERTIFICATION OF NON-SEGREGATED FACILITIES (APR 1984)	K-5
K.11	52.222-22	PREVIOUS CONTRACTS AND COMPLIANCE REPORTS (APR 1984)	K-6
K.12	52.222-25	AFFIRMATIVE ACTION COMPLIANCE (APR 1984)	K-6
K.13	52.223-1	CLEAN AIR AND WATER CERTIFICATION (APR 1984)	K-6
K.14	52.225-1	BUY AMERICAN CERTIFICATE (APR 1984)	K-7
K.15	86-910 (DAR Deviation)	CERTIFICATION OF DEBARMENT/SUSPENSION STATUS.....	K-8

PART IV - GENERAL INSTRUCTIONS
SECTION K - REPRESENTATIONS, CERTIFICATIONS AND
OTHER STATEMENTS OF BIDDERS/OFFERORS

K.1 FAR 52.203-2, CERTIFICATE OF INDEPENDENT PRICE DETERMINATION (APR 1985)

a. The offeror certifies that--

(1) The prices in this offer have been arrived at independently, without, for the purpose of restricting competition, any consultation, communication, or agreement with any other offeror or competitor relating to (i) those prices, (ii) the intention to submit an offer, or (iii) the methods or factors used to calculate the prices offered;

(2) The prices in this offer have not been and will not be knowingly disclosed by the offeror, directly or indirectly, to any other offeror or competitor before bid opening (in the case of a sealed bid solicitation) or contract award (in the case of a negotiated solicitation) unless otherwise required by law; and

(3) No attempt has been made or will be made by the offeror to induce any other concern to submit or not to submit an offer for the purpose of restricting competition.

b. Each signature on the offer is considered to be a certification by the signatory that the signatory--

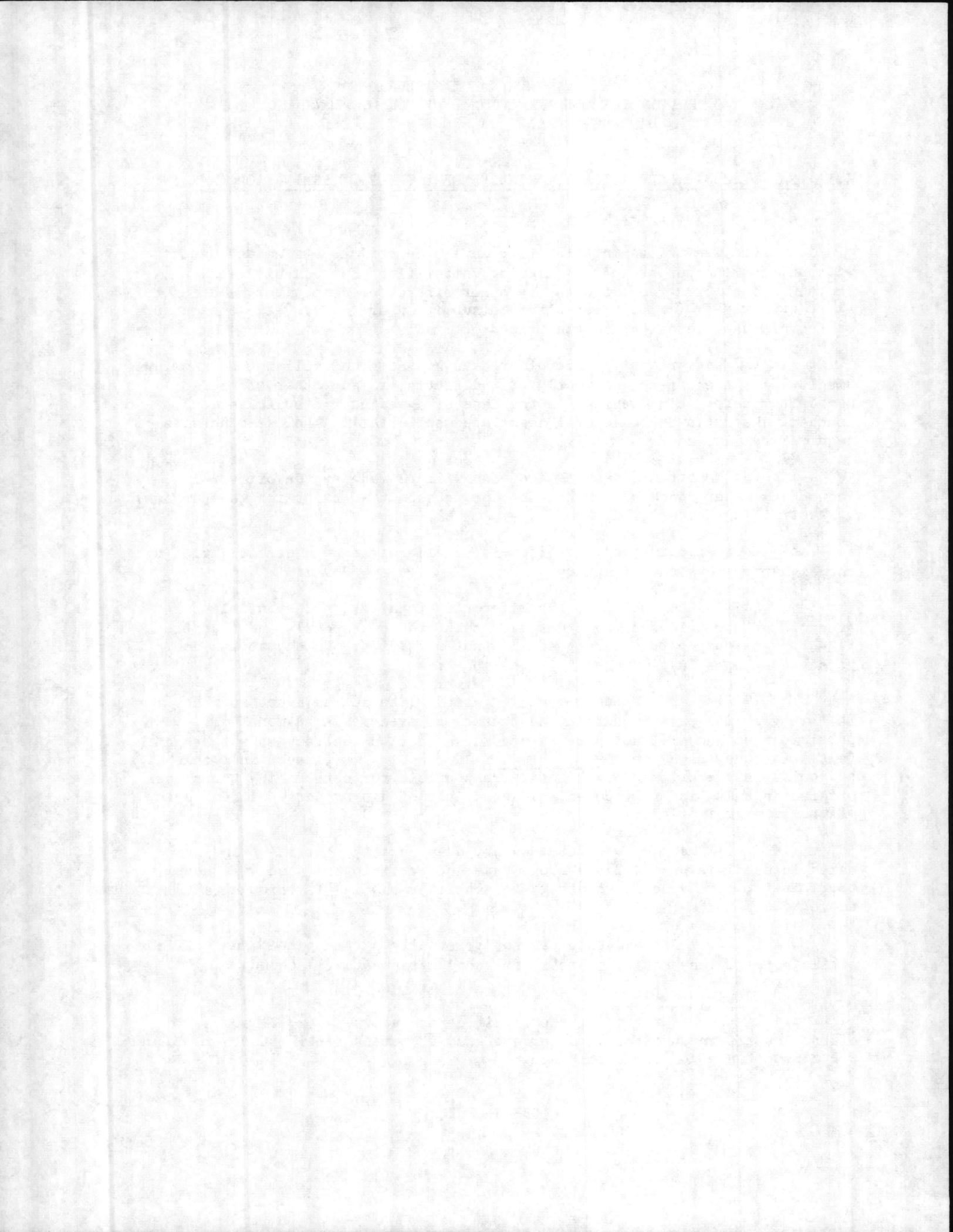
(1) Is the person in the offeror's organization responsible for determining the prices being offered in this bid or proposal, and that the signatory has not participated and will not participate in any action contrary to subparagraphs (a)(1) through (a)(3) above; or

(2)(i) Has been authorized in writing, to act as agent for the following principals in certifying that those principals have not participated, and will not participate in any action contrary to subparagraphs (a)(1) through (a)(3) above _____ (insert full name of person(s) in the offer's organization responsible for determining the prices offered in this bid or proposal, and the title of his or her position in the offeror's organization);

(ii) As an authorized agent, does certify that the principals named in subdivision (b)(2)(a) above have not participated, and will not participate, in any action contrary to subparagraphs (a)(1) through (a)(3) above; and

(iii) As an agent, has not personally participated, and will not participate, in any action contrary to subparagraphs (a)(1) through (a)(3) above.

c. If the offeror deletes or modifies subparagraph (a)(2) above, the offeror must furnish with its offer a signed statement setting forth in detail the circumstances of the disclosure.



K.2 FAR 52.203-4, CONTINGENT FEE REPRESENTATION AND AGREEMENT (APR 1984)

a. Representation. The offeror represents that, except for full-time bona fide employees working solely for the offeror, the offeror--

NOTE: THE OFFEROR MUST CHECK THE APPROPRIATE BOXES. FOR INTERPRETATION OF THE REPRESENTATION, INCLUDING THE TERM "BONA FIDE EMPLOYEE", SEE SUBPART 3.4 OF THE FEDERAL ACQUISITION REGULATION).

(1) _____ has, _____ has not employed or retained any person or company to solicit or obtain this contract; and

(2) _____ has, _____ has not paid or agreed to pay any person or company employed or retained to solicit or obtain this contract any commission, percentage, brokerage, or other fee contingent upon or resulting from the award of this contract.

b. Agreement. The offeror agrees to provide information relating to the above Representation as requested by the Contracting Officer and, when subparagraph (a)(1) or (a)(2) is answered affirmatively, to promptly submit to the Contracting Officer--

(1) A completed Standard Form 119 (SF 119), Statement of Contingent or Other Fees; or

(2) A signed statement indicating that the SF 119 was previously submitted to the same contracting office, including the date and applicable solicitation or contract number, and representing that the prior SF 119 applies to this offer or quotation.

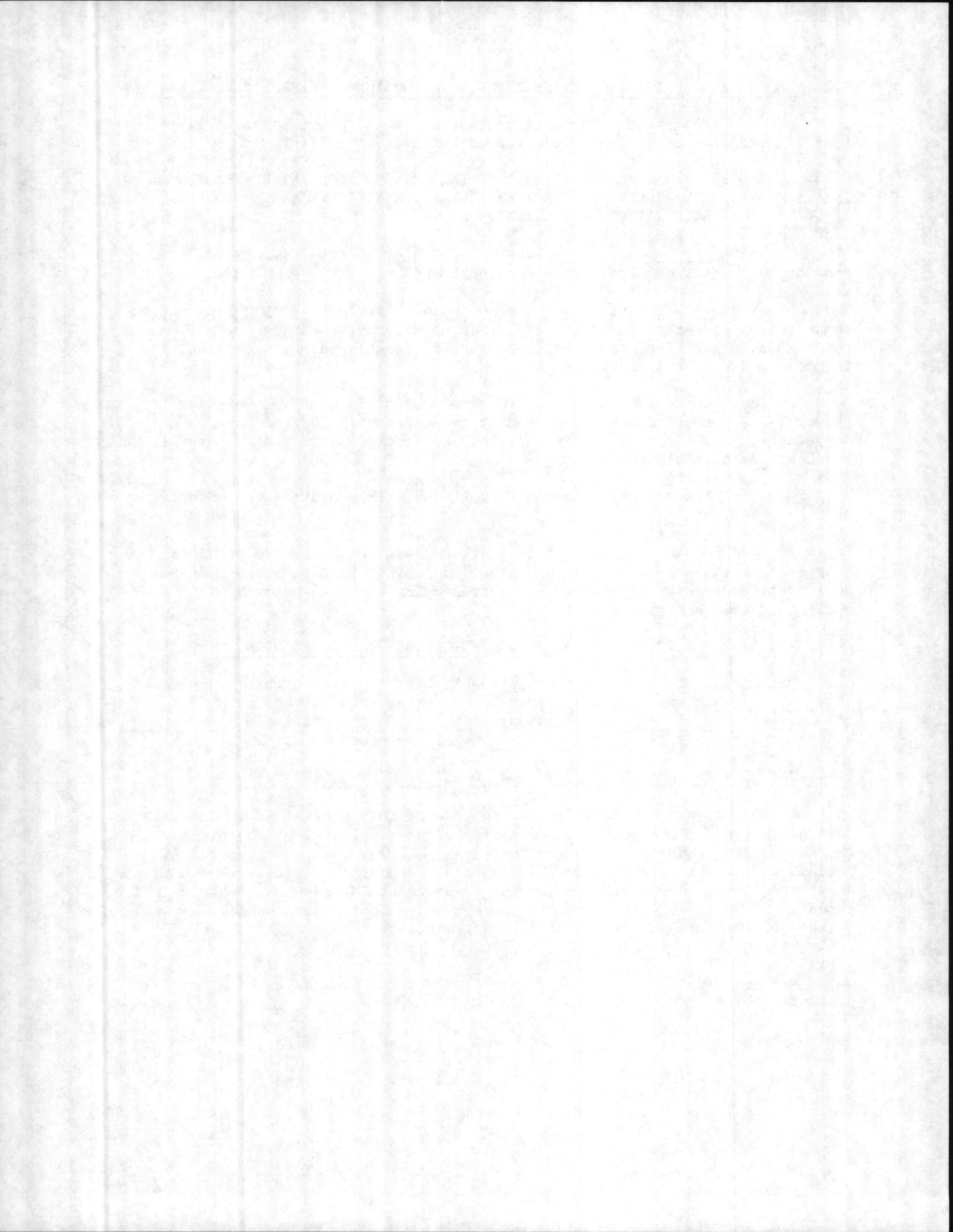
K.3 FAR 52.214-2, TYPE OF BUSINESS ORGANIZATION - SEALED BIDDING (APR 1985).

The bidder, by checking the applicable box, represents that it operates as _____ a corporation incorporated under the laws of the State of _____, _____ an individual, _____ a partnership, _____ a nonprofit organization, or _____ a joint venture.

K.4 FAR 52.214-8, PARENT COMPANY AND IDENTIFYING DATA (APR 1984)

a. A "parent" company, for the purpose of this provision, is one that owns or controls the activities and basic business policies of the bidder. To own the bidding company means that the parent company must own more than 50 percent of the voting rights in that company. A company may control a bidder as a parent even though not meeting the requirement for such ownership if the parent company is able to formulate, determine, or veto basic policy decisions of the offeror through the use of dominant minority voting rights, use of proxy voting, or otherwise.

b. The bidder _____ is, _____ is not (check applicable box) owned or controlled by a parent company.



c. If the bidder checked "is" in paragraph (b) above, it shall provide the following information:

Name and Main Office Address of Parent Company (include Zip Code),
Parent Company's Employer's Identification Number

d. If the bidder checked "is not" in paragraph (b) above, it shall insert its own Employer's Identification Number on the following line

K.5 FAR 52.214-16, MINIMUM BID ACCEPTANCE PERIOD (APR 1984)

a. "Acceptance period", as used in this provision, means the number of calendar days available to the Government for forwarding a contract from the date specified in this solicitation of receipt of bids.

b. This provision supersedes any language pertaining to the acceptance period that may appear elsewhere in this solicitation.

c. The government requires a minimum acceptance period of 60 calendar days (The Contracting Officer shall insert the number of days).

d. In the space provided immediately below, bidders may specify a longer acceptance period than the Government's minimum requirement. The bidder allows the following acceptance period: _____ calendar days.

e. A bid allowing less than the government's minimum acceptance period will be rejected.

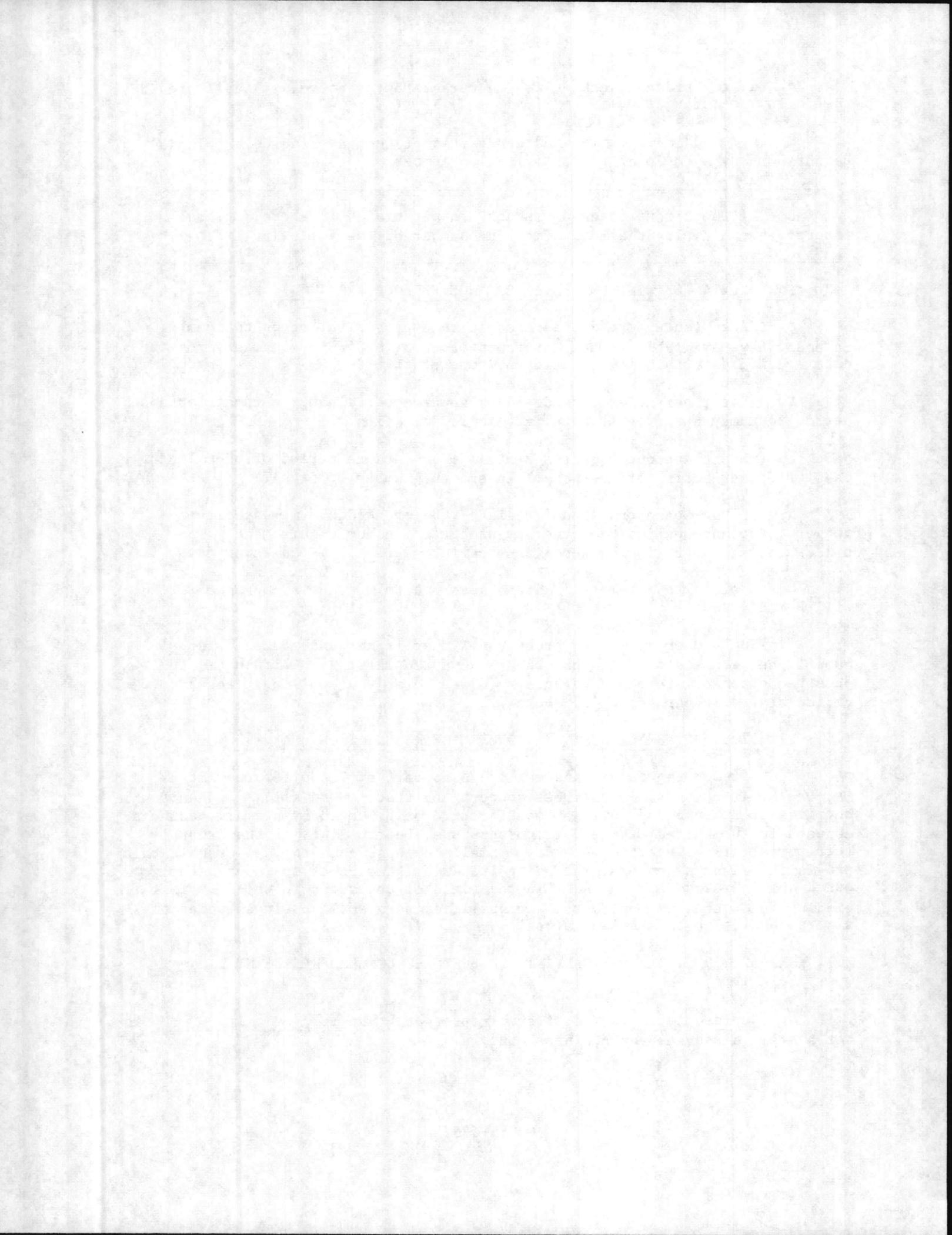
f. The bidder agrees to execute all that it has undertaken to do, in compliance with its bid, if that bid is accepted in writing within (1) the acceptance period stated in paragraph (c) above or (2) any longer acceptance period stated in paragraph (d) above.

K.6 FAR 52.219-1, SMALL BUSINESS CONCERN REPRESENTATION (MAY 1986)

The offeror represents and certifies as part of its offer that it _____ is, _____ is not a small business concern and that _____ all, _____ not all supplies to be furnished will be manufactured or produced by a small business concern in the United States, its possessions, Puerto Rico, or the Trust territories of the Pacific Islands. "Small business concern", as used in this provision, means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the size standards in this solicitation.

K.7 FAR 52.219-2, SMALL DISADVANTAGED BUSINESS CONCERN REPRESENTATION (APR 1984)

a. Representation. The offeror represents that it _____ is, _____ is not a small disadvantaged business concern.



b. Definitions

(1) "Asian-Indian American", as used in this provision, means a United States citizen whose origins are in India, Pakistan, or Bangladesh.

(2) "Asian-Pacific American", as used in this provision, means a United States citizen whose origins are in Japan, China, the Philippines, Vietnam, Korea, Samoa, Guam, the U. S. Trust Territory of the Pacific Islands, the Northern Mariana Islands, Laos, Cambodia or Taiwan.

(3) "Native Americans", as used in this provision, means American Indians, Eskimos, Aleuts, and native Hawaiians.

(4) "Small business concern", as used in this provision, means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and autlified as a small business under the criterial and size standards in 13 CFR 121.

(5) "Small disadvantaged business concern", as used in this provision, means a small business concern that (1) is at least 51 percent owned by one or more socially and economically disadvantaged individuals and (2) has its management and daily business controlled by one or more such individuals.

c. Qualified Groups. The offeror shall presume that socially and economically disadvantaged individuals include Black Americans, Hispanic Americans, Native Americans, Asian-Pacific Americans, Asian-Indian Americans, and other individuals found to be qualified by the SBA under 13 CFR 124.1.

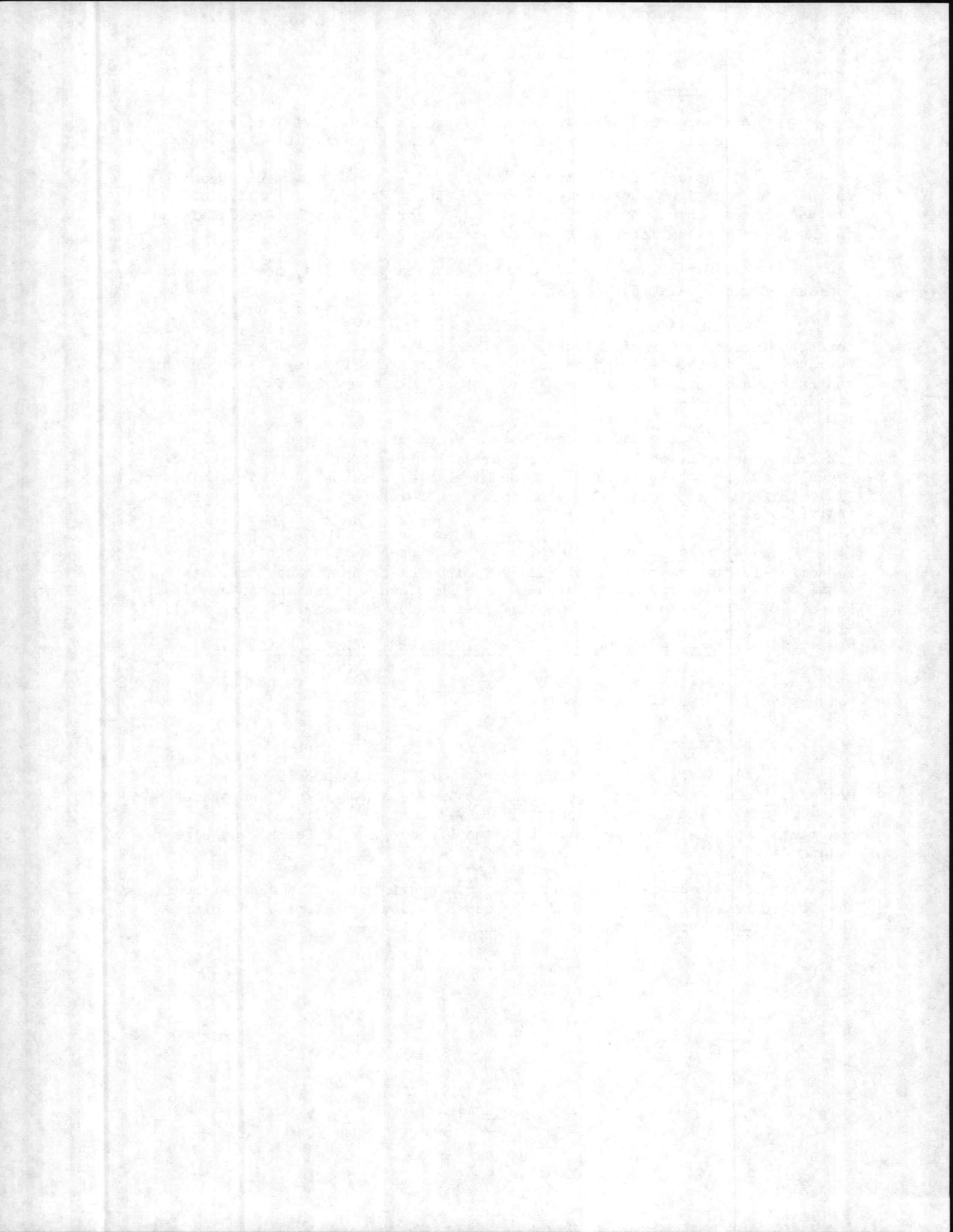
K.8 FAR 52.219-3, WOMEN-OWNED SMALL BUSINESS REPRESENTATION (APR 1984)

a. The offeror represents that it _____ is, _____ is not a women-owned small business concern.

b. Definitions

(1) "Small business concern", as used in this provision, means a concern, including its affiliates, that is independently owned and operated, not dominate in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the criterial and size standards in 13 CFR 121.

(2) "Women-owned", as used in this provision, means a small business that is at least 51 percent owned by a woman or women who are U. S. citizens and who also control and operate the business.



K.9 PREFERENCE FOR LABOR SURPLUS AREA CONCERNS (APR 1985)

a. This acquisition is not a set aside for labor surplus area (LSA) concerns. However, the offeror's status as such a concern may affect (1) entitlement to award in case of tie offers or (1) offer evaluation in accordance with the Buy American Act clause of this solicitation. In order to determine whether the offeror is entitled to a preference under (1) or (2) above, the offeror must identify, below, the LSA in which the costs to be incurred on account of manufacturing or production (by the offeror or the first-tier subcontractors) amount to more than 50 percent of the contract price.

b. Failure to identify the locations as specified above will preclude consideration of the offeror as an LSA concern. If the offeror is awarded a contract as an LSA concern and would not have otherwise qualified for award, the offeror shall perform the contract or cause the contract to be performed in accordance with the obligations of an LSA concern.

K.10 FAR 52.222-21, CERTIFICATION OF NONSEGREGATED FACILITIES (APR 1984)

a. "Segregated facilities," as used in this provision, means any waiting rooms, work areas, rest rooms, and wash rooms, restaurants and other eating areas, time clocks, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees, that are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, or national origin because of habit, local custom, or otherwise.

b. By the submission of this offer, the offeror certifies that it does not and will not maintain or provide for its employees any segregated facilities at any of its establishments, and that it does not and will not permit its employees to perform their services at any location under its control where segregated facilities are maintained. The offeror agrees that a breach of this certification is a violation of the Equal Opportunity clause in the contract.

c. The offeror further agrees that except where it has obtained identical certifications from proposed subcontractors for specific time periods) it will-

(1) Obtain identical certifications from proposed subcontractors before the award of subcontracts under which the subcontractor will be subject to the Equal Opportunity clause;

(2) Retain the certifications in the files; and

(3) Forward the following notice to the proposed subcontractors (except if the proposed subcontractors have submitted identical certifications for specific time periods):

NOTICE TO PROSPECTIVE SUBCONTRACTORS OF REQUIREMENT FOR CERTIFICATIONS OF
NONSEGREGATED FACILITIES

A Certification of Nonsegregated Facilities must be submitted before the award of a subcontract under which the subcontractor will be subject to the Equal Opportunity clause. The certification may be submitted either for each subcontract or for all subcontracts during a period (i.e., quarterly, semiannually, or annually).

NOTE: The penalty for making false statements in offers is prescribed in 18 U.S.C. 1001.

K.11 FAR 52.222-22, PREVIOUS CONTRACTS AND COMPLIANCE REPORTS (APR 1984)

The offeror represents that--

a. It _____ has, _____ has not participated in a previous contract or subcontract subject either to the Equal Opportunity clause of this solicitation, the clause originally contained in Section 310 of Executive Order No. 10925, or the clause contained in Section 201 of Executive Order No. 11114;

b. It _____ has, _____ has not, filed all required compliance reports; and

c. Representations indicating submission of required compliance reports, signed by proposed subcontractors, will be obtained before subcontract awards.

K.12 FAR 52.222-25, AFFIRMATIVE ACTION COMPLIANCE (APR 1984)

The offeror represents that (a) it _____ has developed and had on file, _____ has not developed and does not have on file, at each establishment, affirmative action programs required by the rules and regulations of the Secretary of Labor (41 CFR 60-1 and 60-2), or (b) it _____ has not previously had contracts subject to the written affirmative action programs requirement of the rules and regulations of the Secretary of Labor.

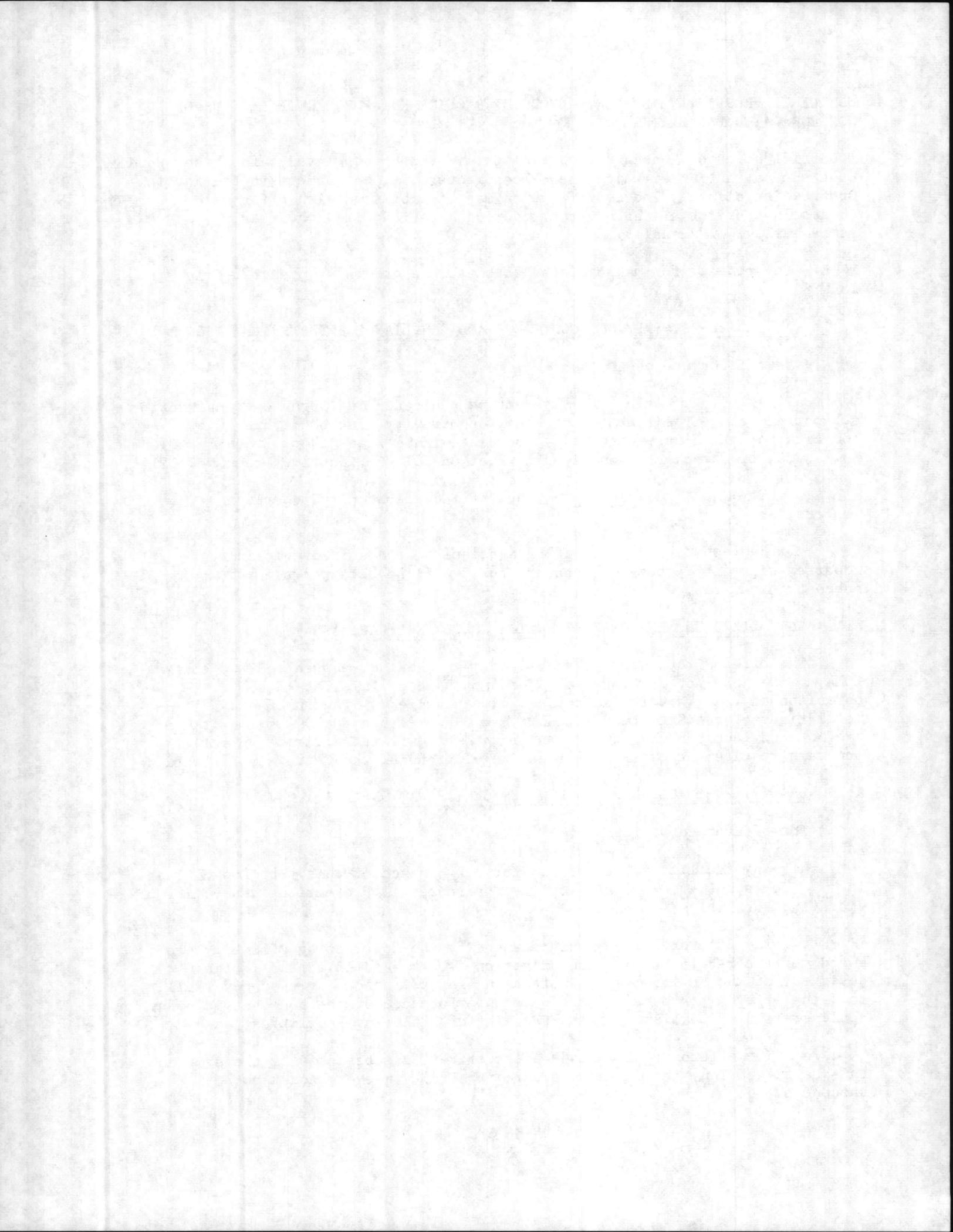
K.13 FAR 52.223-1, CLEAN AIR AND WATER CERTIFICATION (APR 1984)

The offeror certifies that--

a. Any facility to be used in the performance of this proposed contract is _____, is not _____ listed on the Environmental Protection Agency List of Violating Facilities;

b. The Offeror will immediately notify the Contracting Officer, before award, of the receipt of any communication from the Administrator, or a designee, or the Environmental Protection Agency, indicating that any facility that the offeror proposes to use for the performance of the contract is under consideration to be listed on the EPA List of Violating Facilities; and

c. The offeror will include a certification substantially the same as this certification, including this paragraph (c), in every nonexempt subcontract.



K.14 FAR 52.225-1, BUY AMERICAN CERTIFICATE (APR 1984)

a. The offeror certifies that each end product, except those listed below, is a domestic end product (as defined in the clause entitled "Buy American Act - Supplies"), and that components of unknown origin are considered to have been mined, produced, or manufactured outside the United States.

Excluded End Products

Country of Origin

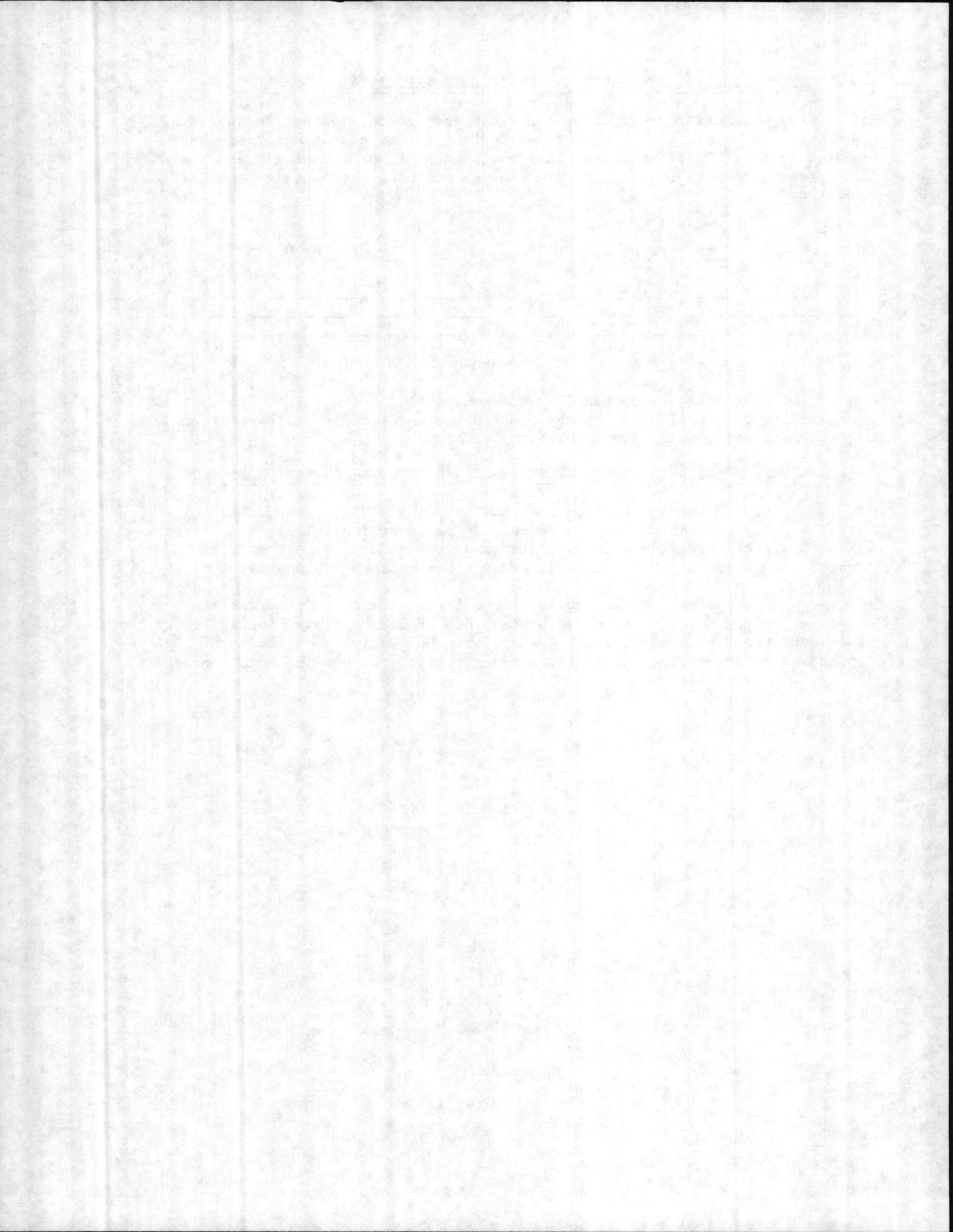
(List as necessary)

b. Offerors may obtain from the contracting officer lists of articles, materials, and supplies excepted from the Buy American Act (listed at 25.108 of the Federal Acquisition Regulation).

K.14 CERTIFICATION OF DEBARMENT/SUSPENSION STATUS DAR DEVIATION 86-910

a. The Offeror certifies with its submission of this offer that it _____ is, _____ is not (check one) suspended, debarred or ineligible from entering into contracts with the Executive Branch of the Federal Government, or in receipt of a notice of proposed debarment from another DOD Agency.

b. The Offeror shall provide immediate notice to the Contracting Officer in the event of being suspended, debarred or declared ineligible by any Department or other Federal Agency, or upon receipt of a notice of proposed debarment from another DOD Agency, prior to award of this contract.



PART IV - GENERAL INSTRUCTION

SECTION L: INSTRUCTIONS, CONDITIONS AND NOTICES TO BIDDERS

TABLE OF CONTENTS

<u>NO.</u>	<u>FAR PROVISION NO.</u>	<u>PROVISION TITLE</u>	<u>PAGE NO</u>
L.1	52.210-2	AVAILABILITY OF SPECIFICATIONS LISTED IN THE DOD INDEX OF SPECIFICATIONS AND STANDARDS (DODISS) (APR 1984)	L-1
L.2	DFARS 52-210-7002	AVAILABILITY OF SPECIFICATIONS LISTED IN THE DODISS, DATA ITEM DESCRIPTIONS NOT LISTED IN DOD DIRECTIVE 5000.19L, VOLUME II, AND PLANS, DRAWINGS, AND OTHER <u>PERTINENT DOCUMENTS</u> (JUN 1977)	L-1
L.3	DFARS 52.210-7003	AVAILABILITY FOR EXAMINATION OF SPECIFICATIONS, STANDARDS, PLANS, DRAWINGS, DATA ITEM DESCRIPTIONS, AND OTHER PERTINENT DOCUMENTS (JUN 1977)	L-2
L.4	52.216-1	TYPE OF CONTRACT (APR 1984)	L-2
L.5	52.219-6	NOTICE OF TOTAL SMALL BUSINESS SET ASIDE (APR 1984)...	L-2
L.6	52.237-1	SITE VISIT (APR 1984)	L-2
L.7		EXAMINATION OF PREMISES	L-3
L.8		SMALL BUSINESS SIZE STANDARD	L-3
L.9	52.252-1	SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (APR 1984)	L-3

PART IV - GENERAL INSTRUCTIONS

SECTION L: INSTRUCTIONS AND CONDITIONS, AND NOTICES TO BIDDERS

L.1 FAR 52.210-2, AVAILABILITY OF SPECIFICATIONS LISTED IN THE DOD INDEX OF SPECIFICATIONS AND STANDARDS (DODISS) (APR 1984)

Single copies of specifications cited in this solicitation may be obtained by submitting a written request to the supply point listed below. The request must contain a the title of the specification, its number, date, applicable amendment(s), and the solicitation or contract number. In case of urgency, telephone or telegraphic requests are acceptable. Voluntary standards, which are not available to offerors and contractors from Government sources, may be obtained from the organization responsible for their preparation, maintenance, or publication.

Commanding Officer
U. S. Naval Publication and Forms Center
5801 Tabor Avenue
Philadelphia, PA 19120

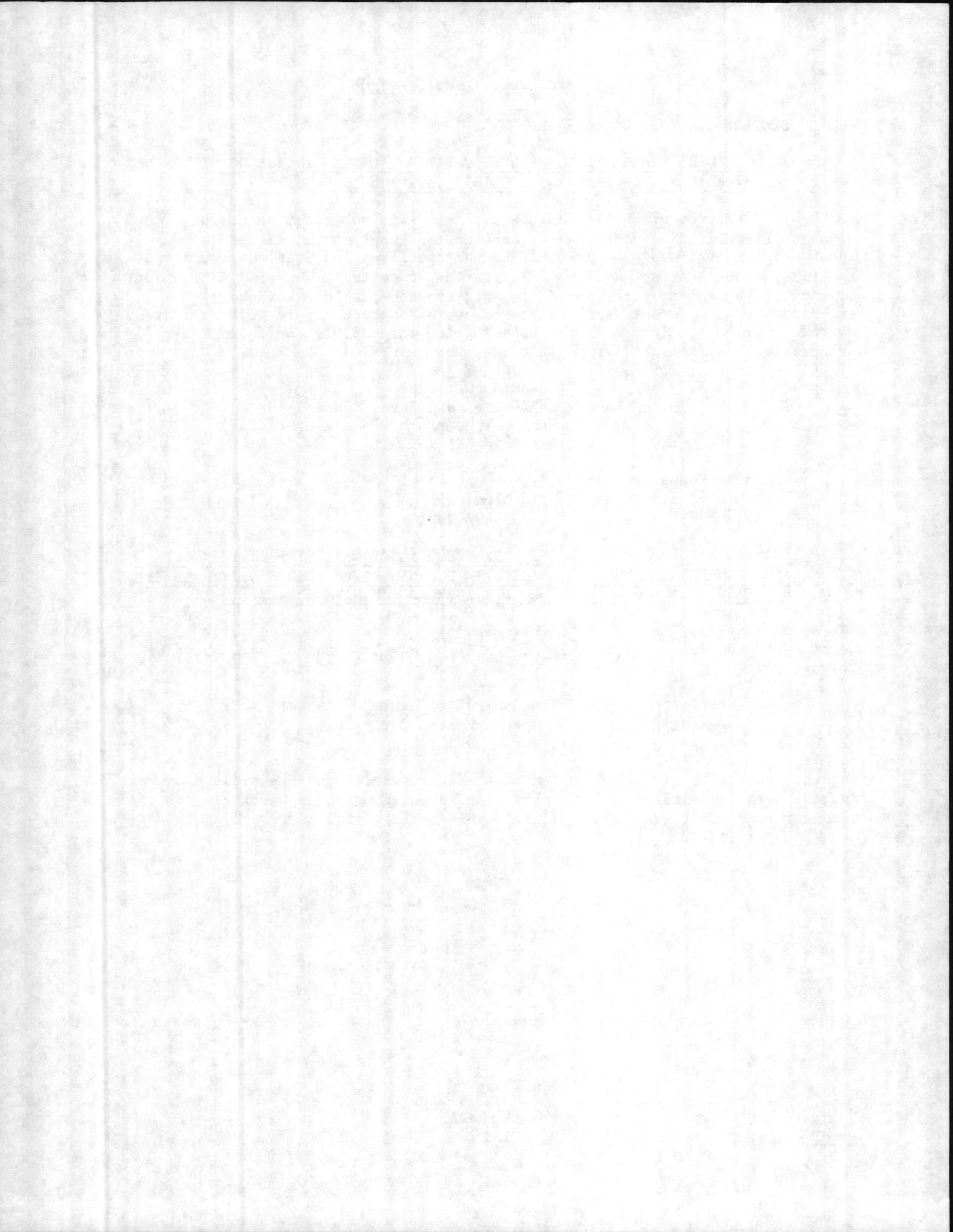
Telex Number 834295
Western Union Number 710-670-1685
Telephone Number (215) 697-3321

L.2 DFARS 52.210-7002, AVAILABILITY OF SPECIFICATIONS LISTED IN THE DODISS, DATA ITEM DESCRIPTIONS NOT LISTED IN DOD DIRECTIVE 5000.19L, VOLUME II, AND PLANS, DRAWINGS, AND OTHER PERTINENT DOCUMENTS (JUN 1977)

The specifications, standards, plans, drawings, descriptions and other pertinent documents cited in this solicitation may be obtained by submitting request to:

OIC, Facility Service Contracts, Jax, N.C. Area
Building 1005 Camp Lejeune Marine Corps Base
Camp Lejeune, North Carolina 28542-5000

Requests should be given the number of the solicitation and the title and number of the specification, standard plan, drawing or other pertinent document requested, exactly as cited in this solicitation.



L.3 DFARS 52.210-7003, AVAILABILITY FOR EXAMINATION OF SPECIFICATIONS, STANDARDS, PLANS, DRAWINGS, DATA ITEM DESCRIPTIONS, AND OTHER PERTINENT DOCUMENT (JUN 1977)

The specifications, standards, plans, drawings, descriptions and other pertinent documents cited in this solicitation may be examined at the following locations:

OIC, Facility Service Contracts, Jax N.C. Area
Building 1005 Camp Lejeune Marine Corps Base
Camp Lejeune, North Carolina 28542-5000
(Telephone number)(919) 451-2582
(Person to be contacted)Ms. Martha Coyne

The request should identify the solicitation number and the specification requested by date, title, and number, as cited in the solicitation.

L.4 FAR 52.216-1, TYPE OF CONTRACT (APR 1984). The Government will award a combination FIRM FIXED PRICE and INDEFINITE QUANTITY Contract resulting from this solicitation.

L.5 FAR 52.219-6, NOTICE OF TOTAL SMALL BUSINESS SET-ASIDE (APR 1984).

(a) Definition.

"Small business concern," as used in this clause, means a concern including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the size standards in this solicitation.

(b) General

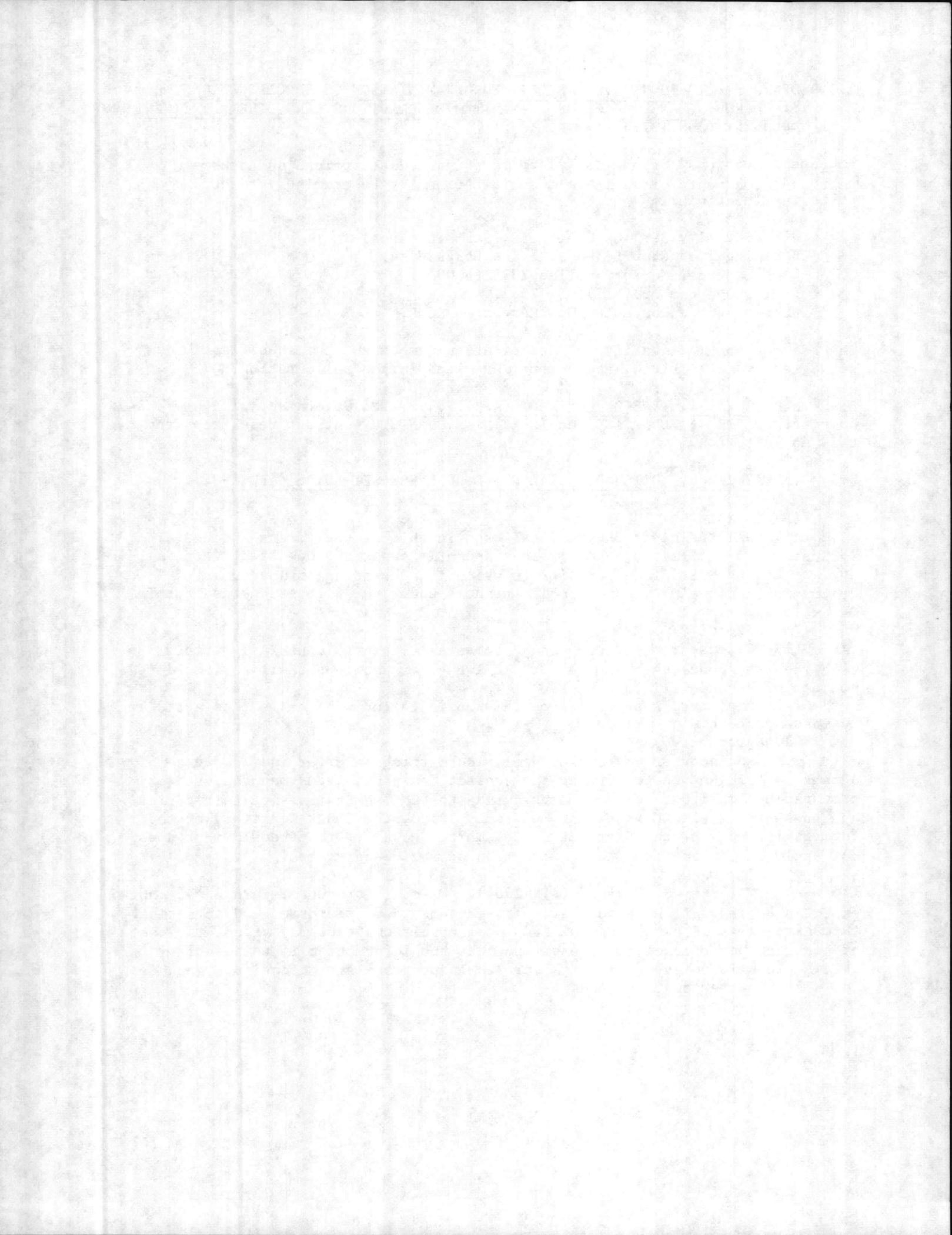
(1) Offers are solicited only from small business concerns. Offers received from concerns that are not small business concerns shall be considered nonresponsive and will be rejected.

(2) Any award resulting from this solicitation will be made to a small business concern.

(c) Agreement

A Manufacturer or regular dealer submitting an offer in its own name agrees to furnish, in performing the contract, only end items manufactured or produced by small business concerns inside the United States, its territories and possessions, the Commonwealth of Puerto Rico, the Trust Territory of the Pacific Islands, or the District of Columbia. However, this requirement does not apply in connection with construction or service contracts.

L.6 FAR 52.237-1, SITE VISIT (APR 1984). Offerors or quoters are urged and expected to inspect the site where services are to be performed and to satisfy themselves regarding all general and local conditions that may affect the cost of contract performance, to the extent that the information is reasonably obtainable. In no event shall failure to inspect the site constitute grounds for a claim after contract award.



L.7 EXAMINATION OF PREMISES. Bidders are expected to satisfy themselves as to the general and local conditions that may affect the cost of the performance of the work to the extent that such information is reasonably obtainable. It is considered impractical to determine, without inspection, the exact nature of the work and site conditions under which the work is to be performed. Arrangements to visit the site may be made by contacting Ms. Martha Coyne during regular working hours at 451-2582. Site visits are restricted to regular working hours.

L.8 SMALL BUSINESS SIZE STANDARD. This solicitation is limited to small business according to the NOTICE OF TOTAL SMALL BUSINESS SET-ASIDE clause in Section I. For this procurement, a small business concern is a concern that is certified as a small business concern by the Small Business Administration and, in the Subject Industry Code 1731, Electrical Work, the average annual receipts of the concern and its affiliates for the preceding three fiscal years must not exceed \$7,000,000.00.

L.9 FAR 52.252-1, SOLICITATION PROVISIONS INCORPORATED BY REFERENCE
(APR 1984)

This solicitation incorporates the following solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available.

a. FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1) SOLICITATION PROVISIONS

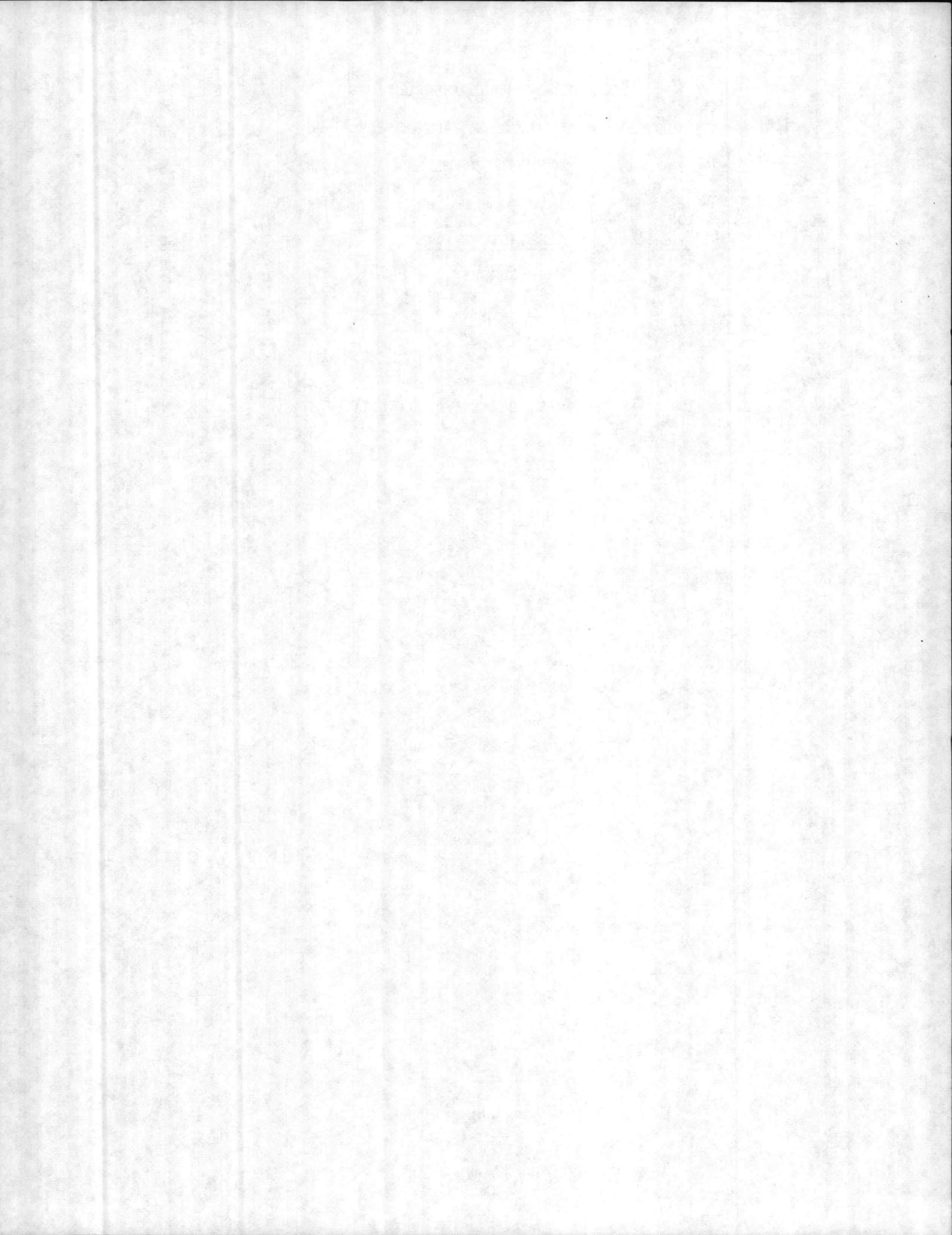
<u>PROVISION NUMBER</u>	<u>PROVISION TITLE</u>
52.214-1	SOLICITATION DEFINITIONS - SEALED BIDDING (APR 1985)
52.214-3	ACKNOWLEDGEMENT OF AMENDMENTS TO INVITATIONS FOR BIDS (APR 1984)
52.214-4	FALSE STATEMENTS IN BIDS (APR 1984)
52.214-5	SUBMISSION OF BIDS (APR 1984)
52.214-6	EXPLANATION TO PROSPECTIVE BIDDERS (APR 1984)
52.214-7	LATE SUBMISSIONS, MODIFICATIONS, AND WITHDRAWALS OF BIDS (APR 1984)
52.214-9	FAILURE TO SUBMIT BID (APR 1985)
52.214-10	CONTRACT AWARD - SEALED BIDDING (APR 1985)
52.214-12	PREPARATION OF BIDS (APR 1984)

PART IV - GENERAL INSTRUCTIONS

SECTION M: EVALUATION FACTORS FOR AWARD

TABLE OF CONTENTS

<u>NO.</u>	<u>FAR PROVISION NO.</u>	<u>PROVISION TITLE</u>	<u>PAGE NO</u>
M.1		PREAWARD SURVEY	M-1
M.2	DFARS 52.214-7000	DISCOUNT (APR 1984)	M-1
M.3		RESERVED	M-1
M.4	52.232-15	PROGRESS PAYMENTS NOT INCLUDED	M-1



PART IV - GENERAL INSTRUCTIONS

SECTION M: EVALUATION FACTORS FOR AWARD

M.1 PRE-AWARD SURVEY. The Government may make a pre-award survey of the low conforming bidder to determine whether such bidder is qualified and capable of performing the contract. The pre-award survey will involve examination of the bidder's financial and technical status and understanding of the contract requirements. The following are examples of the information that, upon request, the bidder shall be required to provide in writing to the pre-award survey team. requested information shall be forwarded within three days of request. Failure to provide requested information, or a determination, after review of the information, of the bidder's non-responsibility, may result in bid rejection.

a. Identification of the Contractor's personnel and management to be used on this contract.

b. The Contractor's technical and management plans for performing required services.

c. Description of Contractor's facilities and equipment.

d. Summary of the Contractor's experience in performing work of the type required by this specification.

e. Current financial statements and data.

f. Contractor Quality Control Program.

g. Other work presently under contract.

h. Prior contracts for similar work, and the names and addresses of individuals with the organization issuing the contract who may be contacted for information concerning the Contractor's performance.

M.2 DFARS 52.214-7000, DISCOUNT (APR 1984). Prompt payment discounts will not be considered in the evaluation of offers. However, any offered discount will form a part of the award and will be taken if payment is made within the discount period indicated in the offer by the offeror. As an alternative to offering a prompt payment discount in conjunction with the offer, offerors awarded contracts may include prompt payment discounts on individual invoices.

M.3 RESERVED

M.4 FAR 52.232-15, PROGRESS PAYMENTS NOT INCLUDED (APR 1984). A progress payments clause is not included in this solicitation, and will not be added to the resulting contract at the time of award. Bids conditioned upon inclusion of a progress payment clause in the resulting contract will be rejected as nonresponsive.

