

CONFIDENTIAL
NOT FOR PUBLICATION

INTERIM REPORT
NATIONAL PETROLEUM COUNCIL'S
COMMITTEE ON MATERIALS AND CHEMICALS
REQUIREMENTS OF THE OIL AND GAS INDUSTRIES
FEBRUARY 28, 1951

HEADQUARTERS OFFICE

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Transmittal Letter - March 12, 1951;

Walter S. Hallanan, Chairman of National Petroleum Council
to Honorable Oscar L. Chapman, Secretary of the Interior

Transmittal Letter - March 6, 1951;

Reese H. Taylor, Chairman of the Committee on Materials and
Chemicals Requirements of the Oil and Gas Industries to
Walter S. Hallanan, Chairman of the National Petroleum Council

Text of Interim Report

Section I - List of Critical Materials in Short Supply

Section II - List of Critical Materials in Prospective Short
Supply

Subsection I - List of Critical Materials in Short Supply by
Divisions of the Oil and Gas Industries

Subsection II - List of Critical Materials in Prospective Short
Supply by Divisions of the Oil and Gas
Industries

Divisions Reported in Subsections I and II;

Drilling
Production of Crude Petroleum
Production of Natural Gas
Production of Natural Gasoline and Liquefied
Petroleum Gas
Ocean-Going Tanker Transportation
Barge and Lake Tanker Transportation
Rail Transportation
Tank Truck Transportation
Petroleum Pipe Line Transportation
Natural Gas Pipe Line Transportation
Refining
Equipment
Foreign Operations

Committee Membership

NATIONAL PETROLEUM COUNCIL

(Created by the Secretary of the Interior)

SUITE 601, 1625 K STREET, N. W.

WASHINGTON 6, D. C.

OFFICERS

Walter S. Hallanan

Chairman

R. G. Follis

Vice-Chairman

James V. Brown

Secretary-Treasurer

Telephone
EXecutive 5167

March 12, 1951

C O P Y

Hon. Oscar L. Chapman
Secretary of the Interior
Washington, D. C.

Dear Mr. Secretary:

Transmitted herewith is an Interim Report of the National Petroleum Council's Committee on Materials and Chemicals Requirements of the Oil and Gas Industries, containing lists of critical materials and chemicals now in short supply and in prospective short supply.

On December 1, 1951, Mr. Hugh A. Stewart, Director of the Oil and Gas Division of the Department of the Interior, addressed a letter to me, as Chairman of the National Petroleum Council, in which he requested the appointment of a Committee to provide information with respect to materials and chemicals required by the oil and gas industries to maintain an adequate supply of oil and gas to meet the Nation's essential needs in any emergency.

In the light of this request, which I considered as of an emergency character in relation to our national security, I promptly appointed a committee to go into this subject, and Mr. Reese H. Taylor, President of the Union Oil Company of California, is Chairman of this Committee. The Committee is composed of a good cross-section of all segments of the petroleum industry. For your information, I enclose a copy of the membership.

In pursuance of this request, the Committee organized promptly and has prepared an "interim" report, which Chairman Taylor has submitted to me. I feel that this interim report is of such urgent importance that I should pass it along to you and the members of your staff. You will understand that it has not been approved by the Council, but will be submitted for Council consideration at the next meeting. In the meantime, I desired that you have the benefit of the information herein contained, which bears upon this important subject relating to our national defense program.

Sincerely yours,

WSH:sdc
enclosures



C n a i r m a n

Los Angeles, California
March 6, 1951

C O P Y

Mr. Walter S. Hallanan, Chairman
National Petroleum Council
1625 K Street, N. W.
Washington 6, D. C.

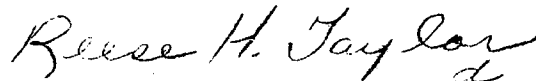
Dear Mr. Hallanan:

Transmitted herewith is an interim report prepared by the National Petroleum Council's Committee on Materials and Chemicals Requirements of the Oil and Gas Industries. This report contains lists of critical materials and chemicals required by the oil and gas industries now in short supply and in prospective short supply.

At a meeting of the Committee on January 31, 1951, Representatives of the Petroleum Administration for Defense informed the Committee that it was undertaking studies as to requirements in the oil and gas industries and in that connection urgently needed lists of critical materials and chemicals in short supply.

In view of the Government's needs, I recommend that this interim report be made available to the Department of the Interior for its consideration in connection with its current studies.

Sincerely,



Reese H. Taylor, Chairman
Committee on Materials and Chemicals
Requirements of the Oil and Gas Industries

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INTERIM REPORT
NATIONAL PETROLEUM COUNCIL'S
COMMITTEE ON MATERIALS AND CHEMICALS
REQUIREMENTS OF THE OIL AND GAS INDUSTRIES

In response to the request contained in the letter from the United States Department of Interior dated December 1, 1950, signed by H. A. Stewart, Director of the Oil and Gas Division, addressed to the Chairman of the National Petroleum Council, and the further indication from the Director of Materials and other representatives of the Petroleum Administration for Defense, at the meeting with this Committee on January 31, 1951, lists of materials and chemicals in short supply, in prospective short supply and by segments of the oil and gas industries have been compiled, based on a survey by each of the subcommittees, and made part of this report.

The assignment to this Committee to study the materials and chemicals requirements excluded steel, inasmuch as another committee of the Council is covering the petroleum industry steel requirements.

In view of the studies contemplated by the Petroleum Administration for Defense, the present study of materials and chemicals requirements of the oil and gas industries was limited to a determination of items in short supply and in prospective short supply.

The lists as compiled are as follows:

- Section I - List of Critical Materials in Short Supply
- Section II - List of Critical Materials in Prospective Short Supply
- Subsection I - List of Critical Materials in Short Supply by Divisions of the Oil and Gas Industries
- Subsection II - List of Critical Materials in Prospective Short Supply by Divisions of the Oil and Gas Industries

Respectfully submitted,

Reese H. Taylor, Chairman
Committee on Materials and Chemicals
Requirements of the Oil and Gas Industries

February 28, 1951

SECTION I
LIST OF CRITICAL MATERIALS
IN SHORT SUPPLY
AS OF
FEBRUARY 1951
IN THE
OIL AND GAS INDUSTRIES

Compiled by the
National Petroleum Council
Committee on Materials and Chemicals
Requirements of the Oil and Gas Industries

Section I

NATIONAL PETROLEUM COUNCIL

COMMITTEE ON MATERIALS AND CHEMICALS
REQUIREMENTS OF THE OIL AND GAS INDUSTRIES

LIST OF CRITICAL MATERIALS
IN SHORT SUPPLY

February 1951

Acetone	Aluminum (cont'd)
Acids	Stearate
Cresylic	Sulfate
Hydrochloric & Hydrofluoric	Ammonia, anhydrous
Naphthenic	Anhydrous aluminum chloride
Oleic	Ammonium
Phosphoric	Chloride
Stearic	Hydroxide
Sulfuric	Molybdate
Tannic	Oxylate
Acryloid 150	Sulfate
Additives	Analine
Lube Oils	Antimony
Admiralty Metal Tubes	Bearings & Fittings
Air Compressors	Trichloride
Alcohols	Asbestos
Ethyl	Filter coat
Formula 30	Gaskets
Isopropyl	Sheet
Methyl	Siding
Normal Butyl	Transite
Alkanolamines	Wire insulation
Diethanolamine	Automobile & Construction
Monoethanolamine	Equipment
Triethanolamine	Anti-Freeze
Alum	Babbitt Material & Metal
Water Treatment	Bearings
Aluminum	Barium
Castings, extruded, rods	Chloride
& tubing	Hydrate
Chloride	Oxide
Gaskets	Batteries
Paints	Dry Cell
Sheets, bars, pistons,	Storage
brazing wire & utensils	

Critical Materials in Short Supply

- 2 -

Bauxite	Catalytic Cracking Catalyst
Bearings All Types Ball, Roller & Sleeve	Caustic Potash
Bentonite	Caustic Soda Flake & Solid Liquid
Benzene	Cellusolve
Benzol	Cement & Cementing Equipment Portland
Blowers, Forced Draft, Soot & Ventilation	Charcoal
Borax	Chlorafin
Brass & Bronze Bar, Bushings, Castings, Rod & Tubing Rolled Naval Brass Sheets Stopcocks Valves & Fittings Wire	Chloride, Plating Grade
Brick	Chlorine Algacide
Bromine (Algacide)	Chromates Compounds Salts
Butyl Carbitol	Chromic Acid
Cable Electric, including insulation Lead covered	Chromium & Other Ferrous Alloys
Cadmium Alloys Coating Plating	Chromium Engine Cylinder Liners
Calcium Hyper-chlorite	Circuit Breakers Air & Oil
Calgon Boiler Treatment	Clocks Automatic Shut-off
Carbon tetrachloride	Clutches Air & Conventional Parts
Carbonizing Compound	Cobalt Alloys & Salts Hydrofining Catalyst Other Catalysts
Castings Brass or bronze	Coke
Castor Oil Blown Raw	Communication Equipment & Parts
	Compressors Air Cylinders Engine Driven

Critical Materials in Short Supply

- Condensers
 - Steam
- Connectors, Copper to Aluminum
- Consatan Thermocouple Lead Wire
- Construction Equipment
 - Cranes
 - Gaskets
 - Parts
 - Tractors
 - Truck Drive Axles
- Containers
 - Fiber
 - Glass
 - Steel
- Copper
 - Alloys
 - Bearings
 - Beryllium
 - Bushings
 - Cable
 - Castings, Rods, Bars, Tubing
 - Sheets & Wire
 - Copper Chloride
 - Fittings
 - Salts
- Cotton
 - Duck
 - Hose
- Cresol
- Cyanides
- D D T
- Depth Sounders
- Diamonds
 - Industrial
- Dichlorethylether (Chlorex)
- Diesel Engines & Emergency Generators
- Diethanolamine
- Diethylene Glycol
- Dipentene
- Drums for Oil Handling
- Electrical & Electronic Equipment
 - Cables
 - Conduits
 - Generators
 - Instruments
 - Indicating & Recording
 - Insulators
 - Meters
 - Motors, starters, switches
 - Transformers
 - Tubes
 - Welding Rods
 - Wire
 - Including insulation
 - Bare, covered & Armored Cable
- Electrical Material containing Copper
- Electrodes
 - Graphite
 - High Nickel
 - Welding
- Electronic Control Equipment
- Engines
 - Diesel
 - Gas
 - Repair Parts
- Engine Alarm Systems & Contactors
- Ethanolamines
- Ethylene Glycol
- Evaporators
- Explosion-proof Motors & Control Switches
- Explosives
 - Cartridge Powder
 - Jet Perforator
 - Nitramon
 - Primacord
- Felt Pipe Wrapping
- Pipe Line Asbestos
- Fencing
 - Galvanized

Critical Materials in Short Supply

Fiber

Brake Lining
Formica Sheet
Packing
Tubing
Washers

Fiberglas Insulation

Filter Media

Film

Kodak
Linograph
Safety
Survey
X-Ray

Flashlight Cells & Cases

Fluorescent Tubes & Ballasts

Formaldehyde

Freon Gas

F-11 & F-12

Furfural

Gaskets

Geiger Tubes

Generators

Electric

Glass & Sheet Fiber

Glucosate

Quachrom
Sodiumchrom
Tetraphospho

Glyceride

Glycerin

Glycols

Diethylene
Ethylene

Graphite

Ground Rods & Clamps

Gypsum, U. S.

Halowax

Heat Exchangers

Heavy Mobile Equipment

Back hoes
Compressors
Ditchers
Dragline
Tractors

Hose

Copper
Cotton
Rubber-lined

Inhibitors

Gasoline
Lubricating Oils

Impellers, pump, manganese bronze

Insulation

Heat
Thermal

Internal Combustion Engines

Parts

Iron

Bolts, Nuts, Screws
Castings, Malleable
Chain
Pig

Iron Sulfate

Lead

Bearings & Fittings
Napthenate
Oxide (Litharge)
Pig, Metallic Antimony
Powder
Red Lead
Solder
Tetraethyl
White Lead

Levels

Surveying

Line Pipe

Fuel
Water

Lithium Hydroxide

Critical Materials in Short Supply

Lumber
Tank Slabbing & Running Boards

Magnesium
Anodes
Castings
Extrusions

Manganese, Propeller Bronze

Maskodor

Masonite

Mercury

Methanol

Methylene Chloride

Methyl Ethyl Ketone

Mica

Molybdenum & Salts
Hydroforming-Hydrofining

Monel Metal
Rods, Tubes, Sheets, & Belts

Monoethanolamine

Motors
Electric
Control

Nails

Nickel & Salts
Alloys
Electrolytic

Nylon
Duck

Oils
Castor
Degras
Fish
Journal Box
Lanolin
Linseed
Rapeseed
Sperm

Orocol

Orthophosphate

Paint
Aluminum & White Lead
Brushes
Solvents
Varnish

Paint Pigments
Titanium
White Lead
Zinc Oxide

Paper
Boxes
Cartons
Chart
Clips & Staples
Kraft
Laminated
Saturating
Stationery
Towels
Wrapping

Petroleum Resins

Phenol

Phosphates
Water Treating

Piling
Yellow Pine Treated 90'

Pitch

Pipe
Cast Iron & Cast Iron Fittings
Merchant

Piping & Tubing
Admiralty Metal
Aluminum-Brass, Brass, Copper,
Cupro-Nickel

Plastics
Bakelite
Balls
Film
Floating Equipment
Gaskets
Micarta
Molded, Tubing, etc.
Packing
Phenol Resins, Hull-paint
Filter Material Coatings

Critical Materials in Short Supply

Plug Valves	Rosin
Plywood	Rubber, Natural & Synthetic
Potassium	Belts
Chloride	Cementing Plugs
Chromate	Cups
Dichromate	Hose
Hydroxide	Air, Oil & Fuel Line
Nitrate	Airbrake
Permanganate	Packing
Pressure Regulators & Governors	Petroleum Suction & Discharge
Propeller Shaft Composition Sleeves	Water, Air & Fire Welding
Propellers & Shaft Sleeves	Packing, Gaskets, Seals & Plugs
Propellers, Manganese Bronze	Tires & Tubes
Pumps	V-Belts
All Types	Valve Cups
Rotary	Salts
Purifiers	Sodium & Potassium Chromate
Fuel	Santobrite
Lubricating	Santopoid
Quebracho	Searchlight Parts
Radio & Radar	Shipboard Cable
Communication Equipment	Silicate of Soda
Tubes	Silicones
Railroad Cars	Sinks
Box	Porcelain
Hopper	Soaps
Rectifiers	All Kinds
Refractories	Soda Ash
Refrigerating Machines	Caustic
Reinforcing Rods	Sodium
Relays	Aluminate
Electric	Bicarbonate
Resorcinol	Bichromate
Roller Chain & Sprockets	Chloride
Rope & Twine	Chromate
Manila	Complex & Tri
	Dichromate
	Hexameta Phosphate
	Nitrate Inhibitor
	Nitrite
	Phosphate
	Disodium & Trisodium
	Sulfate
	Sulfide
	Sulfite

Critical Materials in Short Supply

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Solvents

Isopropanol
Paint & Enamel
Toluol

Stannic Chloride

Steering D engines & Gears

Stellite

Hard Facing

Sulfonates

Sulfur

Switches, Switchboards & Equipment
Weatherproof

Tannin

Tetraethyl Lead

Thermocouples

Timber

Redwood

Tin

Compounds & Alloys
Bearings & Fittings
Cans
Solder

Titanium

Toluene, Toluol

Tools

Cutting, Tungsten Carbide
Hand
Machine
Precision

Torque Converters

Transformers

Electric

Transite Sheets

Tret-o-lite

Trichlorethylene

Tricresyl Phosphate

Trisodium Phosphate

Trucks

38,000# & 1 ton
Parts for 4-wheel Drive
Repair Parts

Tubing, Flexible

Tungsten, Carbides & Other Forms

Turbines, Steam Reduction Gears

Turpentine

Typewriters & Office Machines

Urea

Valves & Fittings

Vanadium

Vitreous Ware

Waste & Wiping Rags

Cotton
Journal Box Packing
Oil Filters
Wool

Water Treatment Compounds &
Chemicals

Wax

Carnauba

Welded Storage Tanks

Welding

Electrodes
Rods

Winches, Windlasses & Capstans

Wire, Aluminum, Copper, Steel
Brushes

Fencing
Barb, Chain Link, Woven

Gun & Magnet
Measuring Line
Metal Spray

Rope
Rubber-covered

Critical Materials in Short Supply

- 8 -

Zeolite

Zinc

Anodes

Barge connector sockets &

Propeller bronze

Bearings & Fittings

Conduit, Pipe, Sheets, Slab

Cyanide

Galvanizing

Powder

Salts

SECTION II
LIST OF CRITICAL MATERIALS
IN PROSPECTIVE SHORT SUPPLY
AS OF
FEBRUARY 1951
IN THE
OIL AND GAS INDUSTRIES

Compiled by the
National Petroleum Council
Committee on Materials and Chemicals
Requirements of the Oil and Gas Industries

Section II

NATIONAL PETROLEUM COUNCIL

COMMITTEE ON MATERIALS AND CHEMICALS
REQUIREMENTS OF THE OIL AND GAS INDUSTRIES

LIST OF CRITICAL MATERIALS IN
PROSPECTIVE SHORT SUPPLY

February 1951

Acids	Bauxite
Butyric	Berbice 3/6 & 4/10 mesh
Fatty	Dricoel 4/14 mesh
Agitators, Continuous	Bearings
Air Conditioning Equipment	Auto
Air Filters	Construction Equipment
Airplanes & Parts	Parts
Alox Compound	Blown Selector
#475 & #488	Blowout Equipment - Hi Pressure
Aluminum	Board
Soap	Fiber, Panel Plaster, & Wall
Anchors & Anchor Rods	Bolts
Pole Lines	Nonferrous
Anodes	Bricks
Graphite	Common
Magnesium	Fire & Shapes
Zinc	Burlap & Burlap Bags
Asbestos	Calcium
Filter Coat	Carbide
Flat & Corrugated Shingles	Chloride
Asphalt Tile & Roofing	Lime
Automobile & Construction	Carbate
Equipment	Carbon Black
Bearings	Castings
Electrical Systems	Nonferrous & ferrous
Engines	Cathodic Protection Systems
Passenger Cars	Parts & Repair
Tractor Parts	Cement
Trucks	Building
Barges - Oil Pipe Line	Chain
Batteries	Loading
All Types	Roller

Critical Materials in Prospective Short Supply

- 2 -

Chlorafin 42	Fencing Staples
Chrome for Plating	
Compounds Nalco Water Treating	Ferex
Compressor Parts	Ferrous Alloys Control Valves Hasteloy Instrument Parts Nickel & Chrome Valve Trim
Copper Chloride Anhydrous Gaskets Sulfate	Fiber Conduit Fiberglas Pipe Wrapper
Cork	
Cotton Canvas Filter Covers	Files
Cups, Pipe Line Scraper	Filter Aids Celite Dicalite HiFlo Super Cel
Daxad #23	Fire Extinguishers & Protection Equipment
Dibutyl	
Disodium Phosphate	Fittings, Pipe
Dodecyl Benzine Sodium Sulfate	Floodlights
Dowtherm	Forgings Nonferrous & ferrous
Dresser Cutters	Freezone
Dyes Ethyl Blue, Red & Yellow Fluorine Gas Oil	Furniture & Supplies
Electrical & Electronic Equipment Fittings & Fuses Lamps Typewriters, Calculators & Adding Machines Wiring Devices	Gas Cutting & Welding
Electrodes Cathodic Ground	Gasket Materials
Emulsion Breeding Compounds	Glass & Sheet Fiber China Galley Equipment Pyrex Laboratory Supplies
Enamel, Coal Tar	Gum Ghatti
Engines Auto & Construction	Hoists
	Hose Metallic, Oil, Flexible
	Howlers Electric

Critical Materials in Prospective Short Supply

- 3 -

Hydrogen Chloride Anhydrous

Hydroquinone

Insulation

Asbestos
Heat Thermo Materials
Magnesia

Instruments

Binnacles, Compasses, Meters
Control & Indicator
Precision, Surveying

Ionol

Iron Sulfate

Isopropyl Esters

Koppers Koleneum

Laboratory Supplies

Balances
Microscopes
Test Equipment

Leather & Belting

Ledsoap

Life Boats

Lubricants, Plug Valve

Lumber

Redwood Cooling Tower Materials
Roofing Plank, Doors
Telephone Poles

Machinery

Metal Working
Welding

Masts, For Drilling

Meters

Gasoline
Oil
Parts

Methylcellusolve

Methylene Ketone

Nitrates
Ammonium

Nitrobenzene

Oakite

Odorant RT13A (Hardesty)

Oils

Animal
Lard
Neats-foot
Nitrated Lard
Pine
Vegetable
Special Compounds

Okemco

O-Rings

Packing

Flax & Metallic
Sheet, Rod, Plunger

Paint

Dryers, Primers, Thinners
Industrial
Spray Guns
Containing Aluminum & Titanium

Paper

Munktells Filter (Laboratory)
Pipe Wrapping
Sheet Rock

Paratac

Perchlorethylene

Pharmaceuticals & Bandages

Phenol

Pentachloro

Phosphate

Boiler Compounds
Disodium
Disodium Anhydrous
Monosodium

Pine Tar

Critical Materials in Prospective Short Supply

- 4 -

Pipe	Soaps
B. & S.	Detergents
Covering & Felt	Flakes
Filling	Sodium
Flanged & Soil	Aluminum Sulfate
Insulation	Hexa-Metaphosphate
Vitrified Sewer	Soldering Materials
Wrapping & Coating Materials	Spark Plugs
Plastics	Sulfate
Coating	Copper
Plybor Chlorate or Borascu	Tables
Pumps	Drafting
Centrifugal	Talc
Packing Sets	Tank Accessories
Pyrenone	Tape, Electrical
Pyrometers	Teflon
Radiators	Telephones
Fittings	Testing Equipment
Heating Equipment	Textiles
Radio & Radar Supplies & Equipment	Thanite
Refractories	Thermometers, Hydrometers, Barometers
Fire Brick, Chrome Ore	Thiolate
Regulators	Tile
Reinforcing Bars, metal lath & studs	Building
Retorts	Ceramic
Rhodine	Drainage
Rock Wool Blankets	Sewage
Rubber	Structural
Hose	Tires
Materials for loading hose	Auto & Truck
Rotary	Industrial Solid
Santodex	Pneumatic
Santolube	Tools
Santopour	Bits - 18% Tungsten Cobalt
Shellac	Electrical
Sinks	Small Hand
Enameled Metal	Tractor Parts

Critical Materials in Prospective Short Supply

- 5 -

Triton X155

Welded Fittings

Trucks

Welding

Auto & Construction

Cables & Supplies

Large

Materials

V-Belts

Wire

Valves & Fittings

Box Stitching

Air

Lines

Gate

Nichrome

Plug Lubricating

Pressure Reducing

Washers

Cut

Galvanized

LIST OF CRITICAL MATERIALS
IN SHORT SUPPLY
BY DIVISIONS
OF THE
OIL AND GAS INDUSTRIES
FEBRUARY 1951

Subsection I

NATIONAL PETROLEUM COUNCIL

COMMITTEE ON MATERIALS AND CHEMICALS
REQUIREMENTS OF THE OIL AND GAS INDUSTRIES

SUBCOMMITTEE ON DRILLING

List of Critical Materials
In Short Supply

February 1951

For

Drilling

Acid Tannic	Internal Combustion Engine Parts Carburetors, Crankshafts, Magnetos, Sparkplugs, Radiators
Bearings All Types	Line Pipe Water & Fuel
Caustic Soda	Mica
Cement and All Cementing Equipment	Roller Chain & Sprockets
Chromates	Rubber Hose Air, Oil & Fuel Lines
Clutches Air & Conventional Clutches & Parts	Torque Converters

Subsection I

NATIONAL PETROLEUM COUNCIL

COMMITTEE ON MATERIALS AND CHEMICALS
REQUIREMENTS OF THE OIL AND GAS INDUSTRIES

SUBCOMMITTEE ON PRODUCTION OF CRUDE PETROLEUM

List of Critical Materials
In Short Supply

February 1951

For

Production of Crude Petroleum

Aluminum
Bar
Castings
Sheet
Tube

Batteries
Dry Cell

Bearings
Ball
Roller

Brass and Bronze
Bar
Bushings
Castings
Rod
Tubing

Cadmium
Alloys
Coating
Plating

Castor Oil
Blown
Raw

Cement

Clutches

Coke

Copper
Beryllium
Cable
Castings
Rods
Tubing

Cotton
Duck

Electrical and Electronic
Cable
Conduits
Instruments
Meters
Tubes
Welding Rod

Engines
Diesel
Repair Parts

Explosives
Cartridge Powder
Jet Perforator
Primacord

Fiber
Brake Lining
Formica Sheet
Packing
Tubing
Washers

Generators

Iron	Rubber
Bolts, Nuts, Screws	Belts
Castings, Malleable	Cementing Plugs
Chain	Cups
Pig	Gaskets
	Hose
Lead	Packing
Powder	Seals
Solder	Synthetic
	Valve Cups
Magnesium	
Molybdenum	Solvents
	Isopropanol
	Toluol
Monel	
Motors	Timber
Electric	Redwood
Nickel	
Nylon	Tin
Duck	Alloys
	Cans
Paint Brushes	Solder
Paper	
Chart	Tools
	Cutting - Tungsten Carbide
Pitch	High-Speed Tool Steel
Plastics	
Bakelite	Trucks - 38,000# and 1 ton
Balls	Repair Parts
Film	
Floating Equipment	Valves
Gasket	
Tubing	Wire
Railroad Cars	Brushes
Box	Gun and Magnet
Hopper	Measuring Line
	Zinc
	Anodes
	Cyanide
	Slab

Subsection I

NATIONAL PETROLEUM COUNCIL

COMMITTEE ON MATERIALS AND CHEMICALS
REQUIREMENTS OF THE OIL AND GAS INDUSTRIES

SUBCOMMITTEE ON PRODUCTION OF NATURAL GAS

List of Critical Materials
In Short Supply

February 1951

For

Production of Natural Gas

Acetone	Barium Chloride Hydrate
Acids	Bentonite
Cresylic	Calgon Boiler Treatment
Hydrochloric and Hydrofluoric	Carbon Tetrachloride
Naphthenic	Castor Oil
Oleic	Blown
Phosphoric	Raw
Stearic	Caustic Soda
Sulfuric	Flake and Solid
Acryloid 150	Liquid
Alcohols	Cellusolve
Ethyl	Chromium and Other Ferrous Alloys
Methyl	Dichlorethylether (Chlorex)
Aluminum	Ethanolamines
Stearate	Formaldehyde
Sulfate	Glucosate
Ammonia, Anhydrous	Sodiumchrom
Ammonium	Tetraphospho
Chloride	Glycerin
Hydroxide	Glycols
Molybdate	Ethylene and Diethylene
Oxylate	Graphite
Aniline	
Asbestos	
Filter Coat	
Automobile and Construction	
Equipment	
Anti-freeze	

Production of Natural Gas (Cont'd) - In Short Supply

Halowax	Sodium
Iron Sulfate	Aluminate
Lithium Hydroxide	Bichromate
Magnesium	Chloride
Mercury	Chromate
Methanol	Dichromate
Oils	Hexameta Phosphate
Castor	Nitrate Inhibitor
Orthophosphate	Sulfide
Phosphate	Solvents
Potassium	Toluol
Chloride	Stannic Chloride
Chromate	Tannin
Dichromate	Toluene, Toluol
Hydroxide	Tret-o-lite
Nitrate	Trichlorethylene
Permanganate	Typewriters and Office Machines
Salts	Urea
Sodium and Potassium Chromate	Wax
Silicate of Soda	Carnauba
Soda Ash	Zeolite
Caustic	

Subsection I

NATIONAL PETROLEUM COUNCIL

COMMITTEE ON MATERIALS AND CHEMICALS
REQUIREMENTS OF THE OIL AND GAS INDUSTRIES

SUBCOMMITTEE ON PRODUCTION OF NATURAL GASOLINE & LPG

List of Critical Materials
In Short Supply

February 1951

For

Production of Natural Gasoline & LPG

Acid	Containers
Hydrochloric	Fiber, Glass & Steel
Sulfuric	Copper and Alloys
Alcohol	Diethanolamine
Formula 30	Electrical Material Containing
Isopropyl	Copper
Methyl	Electronic Control Equipment
Aluminum	Ethanolamines
Castings, Sheets & Tubes	Explosion-Proof Motors and Control
Analine	Switches
Benzene	Furfural
Bromine	Glucosate
Castor Oil	Quachrom, Sodiumchrom &
Caustic Soda	Tetraphospho
Flake	Glycerin
Liquid	Glycols
Cement	Mercury
Chlorine	Monoethanolamine
Algacide	Nickel Alloys
Chromate Salts	Orocol
Potassium and Sodium Chromate	Paint
Chromium and Other Ferrous Alloys	Paper
Cobalt Alloys	Kraft
Compressors and Cylinders	

Production of Natural Gasoline & LPG (Cont'd) - In Short Supply

Phosphates

Plywood

Radio Communication Equipment

Rubber

Hose

Natural

Diaphragm, etc.

Santobrite

Soda Ash

Sodium

Aluminate

Dichromate

Sulfide

Sulfur

Tetraethyl Lead

Tin

Bearings

Toluene

Wire

Aluminum, Copper & Steel

Zinc Galvanized Items

Conduit, Pipe, Sheets, Etc.

Subsection I

NATIONAL PETROLEUM COUNCIL

COMMITTEE ON MATERIALS AND CHEMICALS
REQUIREMENTS OF THE OIL AND GAS INDUSTRIES

SUBCOMMITTEE ON OCEAN-GOING TANKER TRANSPORTATION

List of Critical Materials
In Short Supply

February 1951

For

Ocean-Going Tanker Transportation

Air Compressors	Copper Chloride
Aluminum	Cotton Duck
Ammonium Chloride	Diesel Engines: Emergency Generators
Antimony	Evaporators
Asbestos	Heat Exchangers
Barium Chloride	Hose Cotton, Rubber Lined Copper-Rubber
Bearings Ball, Roller & Sleeve	Lead
Blowers Forced Draft, Soot & Ventilation	Manganese
Brass or Bronze Rolled Naval Brass, Castings, Sheets, Bars & Wire	Methylene Chloride
Bronze & Brass Fittings Valves	Molybdenum
Cable & Wire Electric (Including Insulation)	Monel Metal Rods, Tubes, Sheets & Bolts
Cadmium	Motors (Electric) & Controls
Carbon Tetrachloride	Nickel
Cobalt	Paint & Enamel Solvents
Condensers (Steam)	Paint Pigments Titanium, White Lead & Zinc Oxide
Copper	Paper Wrapping, Laminated & Saturating

Ocean-Going Tanker Transportation - (Cont'd) - In Short Supply

Piping & Tubing	Rubber
Admiralty Metal	Natural
Alum-Brass	Synthetic
Brass	
Copper	Stannic Chloride
Cupro-Nickel	
	Steering Engines & Gears
Potassium Chloride	Switchboards & Equipment
Pressure Regulators & Governors	
Propeller Shaft Composition	Tin
Sleeves	Transformers
	Electric
Propellers	
Manganese Bronze	Turbines
	Steam
Pumps	Reduction Gears
All Types	
	Tungsten
Purifiers	
Fuel	Vanadium
Lubricating	
	Winches, Windlasses & Capstans
Refrigerating Machines	
	Zinc

Subsection I

NATIONAL PETROLEUM COUNCIL

COMMITTEE ON MATERIALS AND CHEMICALS
REQUIREMENTS OF THE OIL AND GAS INDUSTRIES

SUBCOMMITTEE ON BARGE & LAKE TANKER TRANSPORTATION

List of Critical Materials
In Short Supply

February 1951

For

Barge & Lake Tanker Transportation

Alum Water Treatment	Plastics Phenol Resins, Bakelite, Hull- Paint, Filter Material Coatings
Aluminum Sheets, Bars, Pistons, Brazing- Wire, Utensils	Propellers & Shaft Sleeves
Babbitt Metal Bearings	Radio, Radar & Electronic Equipment
Batteries Dry & Storage	Rope, Manila
Brick, Fire	Rubber Hose Petroleum Suction & Discharge Water, Air & Fire Welding Packing V-Belts
Chromium Engine Cylinder Liners	Searchlight Parts
Consatan Thermocouple Leadwire	Shipboard Cable
Cotton Waste Oil Filters	Soaps, All Kinds
Depth Sounders	Stellite Hard Facing
Electric Motors & Apparatus	Switchboards
Engine Alarm Systems & Contactors	Titanium Paint Pigments
Fiber Glass Insulation Filter Media	Valves
Gaskets	Water Treatment Compounds and Chemicals
Manganese Propeller Bronze	Zinc Barge Connector Sockets Propeller Bronze
Masonite	
Metal Spray Wire	
Paper, Kraft	

Subsection I

NATIONAL PETROLEUM COUNCIL

COMMITTEE ON MATERIALS AND CHEMICALS
REQUIREMENTS OF THE OIL AND GAS INDUSTRIES

SUBCOMMITTEE ON RAIL TRANSPORTATION

List of Critical Materials
In Short Supply

February 1951

For

Rail Transportation

Antimony
Bearings & Fittings

Copper
Bearings & Fittings

Cotton & Wool Waste
Journal Box Packing

Lead
Bearings & Fittings

Lumber
Tank Slabbing & Running Boards

Oil
Journal Box

Rubber Hose & Gaskets
Air Brake

Tin
Bearings & Fittings

Zinc
Bearings & Fittings

Subsection I

NATIONAL PETROLEUM COUNCIL

COMMITTEE ON MATERIALS AND CHEMICALS
REQUIREMENTS OF THE OIL AND GAS INDUSTRIES

SUBCOMMITTEE ON TANK TRUCK TRANSPORTATION

List of Critical Materials
In Short Supply

February 1951

For

Tank Truck Transportation

Nickel

Rubber

Subsection I

NATIONAL PETROLEUM COUNCIL

COMMITTEE ON MATERIALS AND CHEMICALS
REQUIREMENTS OF THE OIL AND GAS INDUSTRIES

SUBCOMMITTEE ON PETROLEUM PIPE LINE TRANSPORTATION

List of Critical Materials
In Short Supply

February 1951

For

Petroleum Pipe Line Transportation

Admiralty Metal Tubes	Cotton Waste
Aluminum Gaskets	Drums For Oil Handling
Aluminum Paint	Electric Insulators & Conduit
Asbestos Sheet Packing & Gaskets	Electric Wire Bare, Covered & Armored Cable
Babbitt Material	Electrical & Electronic Equipment Fixtures, Meters, Supplies & Remote Control
Cable, Lead-Covered	Felt-Pipe Wrapping
Calgon Boiler Treatment	Fencing, Galvanized
Carbon Tetrachloride	Flashlight Cells & Cases
Castings, Brass or Bronze	Fluorescent Tubes & Ballasts
Caustic Soda	Geiger Tubes
Chlorine	Glass & Sheet Fiber
Circuit Breakers - Air & Oil	Ground Rods & Clamps
Clocks, Automatic Shut-Off	Heavy Mobile Equipment Tractors, Back Hoe, Dragline, Compressors, Ditchers
Communication Equipment & Parts	Impellers - Pump - Manganese Bronze
Compressors	Levels, Surveying
Connectors, Copper to Aluminum	Lumber
Construction Equipment Cranes & Tractors Truck Drive Axles, Gaskets & Parts	Magnesium Anodes
Copper & Alloy Products Brass Pipe, Valves & Fittings Tubing, Sheets & Wire	

Subsection I

NATIONAL PETROLEUM COUNCIL

COMMITTEE ON MATERIALS AND CHEMICALS
REQUIREMENTS OF THE OIL AND GAS INDUSTRIES

SUBCOMMITTEE ON NATURAL GAS PIPE LINE TRANSPORTATION

List of Critical Materials
In Short Supply

February 1951

For

Natural Gas Pipe Line Transportation

Acid Sulfuric	Fencing Wire
Aluminum Sheet Tubing Castings	Film - X Ray
Asbestos Siding, Sheets, Wire- Insulation	Glycerin
Babbitt Bearing Metal	Heavy Construction Equipment
Brass Cocks and Valves	Lead Sheet Solder
Brass Valves & Fittings	Line Pipe
Brick	Monoethanolamines
Cast Iron Pipe & Fittings	Paints Aluminum Base
Cement Portland	Pressure Equipment
Copper Cable	Radio Equipment
Compressor and Generating Units Engine Driven	Rectifiers
Copper Strip Tubing Fittings	Reinforcing Rod
Diethylene Glycol	Rubber Gasket & Packing Material
Electrical Conduit and Fittings	Rubber Tires
Electrical Generating & Transmis- sion Equipment	Valves & Fittings
Electrical Indicating & Recording Instruments Motors & Controls	Welding Rod
Electric Motors, Starters & Switch-Gear	Wire Rope
Felt, Pipeline Asbestos	

Subsection I

NATIONAL PETROLEUM COUNCIL

COMMITTEE ON MATERIALS AND CHEMICALS
REQUIREMENTS OF THE OIL AND GAS INDUSTRIES

SUBCOMMITTEE ON REFINING

List of Critical Materials
In Short Supply

February 1951

For

Refining

Acetone	Bauxite
Acids	Benzol
Cresylic	Butyl Carbitol
Naphthenic	Carbon Tetrachloride
Oleic	Catalytic Cracking
Phosphoric	Catalyst
Stearic	
Sulfuric	
Additives	Cellusolve
Lube Oils	
Alcohols	Chlorafin
Ethyl	Chlorine
Isopropyl	Cobalt and Salts
Methyl	Hydrofining Catalyst
Normal Butyl	Other Catalysts
Alkanolymines	Copper
Diethanolamine	Alloys
Monoethanolamine	Chloride
Triethanolamine	Other Copper Salts
Aluminum	Cotton Duck
Chloride	Hose
Sulfate	
Ammonia	DDT
Antimony Trichloride	Diethylene Glycol
Asbestos	Dipentene
Sheet Packing	Ethylene Glycol
Transite	
Barium	Freon - F-11 and F-12
Hydrate	
Oxide	

Refining (Cont'd) - In Short Supply

Furfural	Petroleum Resins
Glyceride	Potassium Hydroxide
Graphite	Rope and Twine
Inhibitors Gasoline and Lubricating Oils	Rosin
Insulation Thermal	Rubber Products Hose Packing Other
Lead Naphthenate Oxide (Litharge) Red Lead Tetraethyl White Lead	Silicones
Lithium Hydroxide	Sodium Aluminate Bicarbonate Bichromate Carbonate (Soda Ash) Chloride Chromate Hydroxide (Caustic Soda) Phosphate Disodium Trisodium Sulfate Sulfide Sulfite
Maskodor	Sulfonates (Petroleum)
Mercury	Sulfur
Methanol	Tin - Compounds - Alloys
Methyl Ethyl Ketone	Toluene
Mica	Trichlorethylene
Molybdenum and Salts (Hydroforming-Hydrofining)	Tricresyl Phosphate
Nickel and Salts	Turpentine
Oil Degras Fish Lanolin Linseed Rapeseed Sperm	Vitreous Ware
Paints	Urea
Paper and Fiber Products	Zinc and Zinc Salts
Phenol	

Subsection I

NATIONAL PETROLEUM COUNCIL

COMMITTEE ON MATERIALS AND CHEMICALS
REQUIREMENTS OF THE OIL AND GAS INDUSTRIES

SUBCOMMITTEE ON EQUIPMENT

List of Critical Materials
In Short Supply

February 1951

For

Equipment

Aluminum Castings, Tubing, Rods and Extruded Shapes	Electric Motors Horizontal Oilfield Types
Bearings Roller, Ball, etc.	Electrodes Welding, Graphite, High Nickel
Benzene	Engines Gas & Diesel
Borax	Freon
Cadmium For Plating	Glycerin
Carbon Tetrachloride Liquid	Gypsum U. S.
Carbonizing Compound	Lead Pig, Metallic Antimony & Powdered
Cement Portland & Special Oilwell	Magnesium Castings and Extrusions
Charcoal	Nails
Chloride	Nickel Electrolytic
Chromate Compounds	Paint
Chromic Acid	Paper Boxes, Cartons, Towels, etc.
Copper Copper Base Alloy Castings, Bushings, Tubing, Fittings, Anodes, Bars, and Wire	Phosphates
Cyanides	Pipe Merchant
Diamonds Industrial	Plastics Tubing Molded Shapes

Equipment (Cont'd) - In Short Supply

Resorcinol

Rubber

Hose

Various

Soda

Ash & Caustic

Sodium

Complex and Tri

Torque Converters

300 H.P., Twin Disc

Truck Parts

Equipment for 4-Wheel-Drive

Cementing Trucks

Tungsten

Tungsten Carbides and Other
Forms

Valves

Gate, Plug, etc.

Welding Rod

Wire

Rubber Covered

Zinc

Powder

Subsection I

NATIONAL PETROLEUM COUNCIL

COMMITTEE ON MATERIALS AND CHEMICALS
REQUIREMENTS OF THE OIL AND GAS INDUSTRIES

FOREIGN SUBCOMMITTEE

List of Critical Materials
In Short Supply

February 1951

For

Foreign Operations

Acids	Catalytic Cracking Catalyst
Naphthenic	Caustic Soda
Phosphoric	Solid & Flake
Sulfuric	Caustic Potash
Admiralty Metal Tubes	Cellusolve
Alcohols	Cement
Ethyl	Special Oilwell
Isopropyl	Chlorine
Alkanolamines	Cobalt Alloys and Salts
Alum	Construction Equipment
Aluminum	Caterpillar Tractors
Bars, Brazing-Wire, Pistons	Cranes
Sheets & Utensils	Gaskets
Sulfate	Truck Drive Axles
Ammonium Sulfate	Copper
Anhydrous Aluminum Chloride	Castings, Rods, Sheets, Tubing
Anhydrous Ammonia	& Wire
Asbestos Sheet Packing	Chloride
Automobile and Construction	Cresol
Equipment	DDT
Barium Oxide	Diethanolamine
Bauxite	Diethyleneglycol
Benzol	Electrical & Electronic Equipment
Calcium Hypochlorite	Cable
Carbon Tetrachloride	Conduits
	Insulators
	Wire

Foreign Operations (Cont'd) - In Short Supply

Electronic Control Equipment	Phenol
Explosives, Nitramon	Plywood
Felt Pipe Wrapping	Quebracho
Film X Ray	Radio Communication Equipment Tubes
Flashlight Cells and Cases	Refractories
Freon Gas	Rosin
Furfural	Rubber Hose Tires & Tubes V-Belts
Glass Sheet and Fiber	Santopoid
Glyceride	Soda Ash
Glycerin	Sodium Aluminate Bichromate Hexameta Phosphate Sulfide
Lead	Sulfur
Lithium Hydroxide	Tetraethyl Lead
Lumber	Tin
Magnesium Anodes	Toluol
Manila Rope	Welding Rod
Maskodor	Zinc
Mercury	
Methyl Ethyl Ketone	
Monel Tubing	
Nickel and Salts	
Oils Degras	
Paints and Varnish	
Paper	
Petroleum Resins	

LIST OF CRITICAL MATERIALS
IN PROSPECTIVE SHORT SUPPLY
BY DIVISIONS
OF THE
OIL AND GAS INDUSTRIES
FEBRUARY 1951

Subsection II

NATIONAL PETROLEUM COUNCIL

COMMITTEE ON MATERIALS AND CHEMICALS
REQUIREMENTS OF THE OIL AND GAS INDUSTRIES

SUBCOMMITTEE ON DRILLING

List of Critical Materials
In Prospective Short Supply

February 1951

for

Drilling

Chain
Loading

Compressors
Air

Engines
Internal Combustion

Generators
Electric

Masts, For Drilling

Motors
Electric

Rope
Manila

Rubber Hose
Rotary

Tools
Hand

Trucks
Large

Welding
Materials and Equipment

Wire
Lines

Subsection II

NATIONAL PETROLEUM COUNCIL

COMMITTEE ON MATERIALS AND CHEMICALS
REQUIREMENTS OF THE OIL AND GAS INDUSTRIES

SUBCOMMITTEE ON PRODUCTION OF CRUDE PETROLEUM

List of Critical Materials
in Prospective Short Supply

February 1951

for

Production of Crude Petroleum

Aluminum
Castings

Bearings

Chain
Roller

Film

O-Rings

Paper
Sheet Rock

Plastics
Bakelite

Valves
Air

Wire
Rubber Covered

Subsection II

NATIONAL PETROLEUM COUNCIL

COMMITTEE ON MATERIALS AND CHEMICALS
REQUIREMENTS OF THE OIL AND GAS INDUSTRIES

SUBCOMMITTEE ON PRODUCTION OF NATURAL GASOLINE & LPG

List of Critical Materials
in Prospective Short Supply

February 1951

for

Production of Natural Gasoline & LPG

Acid Sulfuric	Compounds Nalco Water Treating
Admiralty Exchanger Tubes	Compressors Cylinders
Alcohol	Copper Chloride Anhydrous
Aluminum	Copper Salts
Automobile Anti-Freeze	Dye Ethyl Blue, Red, & Yellow Fluorine
Bauxite Berbice 3/6 mesh Berbice 4/10 mesh Dricoel 4/14 mesh	Electrical Supplies
Bolts Nonferrous	Ferex
Brick	Ferrous Alloys Control Valves Hasteloy Instrument parts Nickel & Chrome Alloy Valve Trim
Bromine Algacide	Fittings Pipe
Carbate	Forgings Nonferrous and ferrous
Carbon Tetrachloride	Gasket Materials
Castings Nonferrous and ferrous	Glycerin
Caustic Soda	Glycols Ethylene & Diethylene
Cement	
Chromate Salts	

Production of Natural Gasoline & LPG (Cont'd) - In Prospective Short Supply

Hydrogen Chloride Anhydrous	Radio Supplies & Equipment
Instruments Control & Indicator	Rubber Hose Materials for Loading Hose Tires
Insulation Materials Magnesia	Salt Sodium & Potassium Chromate
Lead Compound Tetraethyl	Soda Ash
Lumber Redwood Cooling Tower Materials	Sodium Aluminate Aluminum Sulfate Chloride Chromate Dichromate
Mercury	Sulfate Copper
Methyl Alcohol	Sulfur
Nitrate Ammonium Potassium	Tannin
Orthophosphate	Welding Rods
Paint Industrial	Wire Nichrome
Paper Munktells Filter (Laboratory)	Zeolite
Phosphate Disodium Disodium Anhydrous Monosodium	Zinc Galvanizing
Pipe Vitrified Sewer	
Pipe Insulation Magnesium	
Pipe Wrapping & Coating Materials	
Potassium Chromate Dichromate Permanganate	
Pump Packing (sets)	
Pumps Centrifugal	
Quebracho	

Subsection II

NATIONAL PETROLEUM COUNCIL

COMMITTEE ON MATERIALS AND CHEMICALS
REQUIREMENTS OF THE OIL AND GAS INDUSTRIES

SUBCOMMITTEE ON OCEAN-GOING TANKER TRANSPORTATION

List of Critical Materials
in Prospective Short Supply

February 1951

for

Ocean-Going Tanker Transportation

Acetone	Magnesium
Acid Sulfuric	Mercury
Babbitt	Mica
Batteries All Types	Oakite
Burlap	Oils Linseed
Caustic Soda	Packing Sheet, Rod, Plunger
Cement	Paint Brushes
Cotton Canvas Wiping Rags	Phosphates Boiler Compounds
Electric Fittings, Fuses, Lamps, etc.	Radio and Radar Tubes and Parts
Flashlight Cases	Refractories Fire Brick, Chrome Ore, etc.
Freon Gas	Rope Manila
Glass China Galley Equipment	Soap Detergents
Glycerin	Soda Ash
Instruments Binnacles, Compasses, Meters	Sodium Bichromate
Insulation, Heat Thermo Materials	Soldering Materials
Life Boats	Telephones
Lumber	Typewriters

Subsection II

NATIONAL PETROLEUM COUNCIL

COMMITTEE ON MATERIALS AND CHEMICALS
REQUIREMENTS OF THE OIL AND GAS INDUSTRIES

SUBCOMMITTEE ON TANK TRUCK TRANSPORTATION

List of Critical Materials
in Prospective Short Supply

February 1951

for

Tank Truck Transportation

Copper

Tin

Lead

Zinc

Subsection II

NATIONAL PETROLEUM COUNCIL

COMMITTEE ON MATERIALS AND CHEMICALS
REQUIREMENTS OF THE OIL AND GAS INDUSTRIES

SUBCOMMITTEE ON PETROLEUM PIPE LINE TRANSPORTATION

List of Critical Materials
in Prospective Short Supply

February 1951

for

Petroleum Pipe Line Transportation

Agitators Continuous	Board Fiber, Panel Plaster, Wall
Air Conditioning Equipment	Bolts Nonferrous
Air Filters	Brick Common
Airplanes	Burlap Bags
Ammonia Anhydrous	Calcium Hypochlorite
Anchors & Anchor Rods Pole Lines	Castings Nonferrous and Ferrous
Anodes Magnesium, Zinc, Graphite	Cathodic Protection Complete Systems, Parts, Repair
Asbestos Sheets, Flat & Corrugated Shingles	Cement Building
Asphalt Tile & Roofing	Compressors
Automobiles Construction	Construction Equipment Cranes
Babbitt	Cotton Canvas
Barges	Cups Pipe Line Scraper
Batteries Storage	Electrical Transformers
Bearings Auto Construction Equipment Parts	Electrical & Electronic Equipment & Materials

Petroleum Pipe Line Transportation (Cont'd) - In Prospective Short
Supply

- 2 -

Electrical System Parts	Lumber Roofing Plank, Doors, etc. Telephone Poles
Electrodes Cathodic Ground	Machinery Metal Working Welding
Enamel Coal Tar	Meters Gasoline Oil Parts
Engines Diesel	Nails
Engines, Automobile Construction	Packing Flax Metallic
Fence Staples	Paint Dryers Primers Spray Guns Thinners
Fiber Conduit	Paper Pipe Wrapping
Fire Extinguishers	Pipe Covering Felt
Floodlights	Plywood
Forgings Nonferrous & Ferrous	Pumps
Furniture & Supplies	Pyrometers
Gas Cutting Welding	Radiators Fittings Heating Equipment
Glass Pyrex Laboratory Supplies	Regulators
Hoists	Reinforcing Bars Metal Lath Studs
Hose Metallic, Oil, Flexible	Rock Wool Blankets
Howlers Electrical	Rubber Hose, Packing
Insulation Asbestos Magnesia	
Lead Sheet	
Leather Belting	
Lubricants Plug Valve	

Petroleum Pipe Line Transportation (Cont'd) - In Prospective Short Supply

- 3 -

Sewer Pipe	Tools
Sinks	Electrical
Enameled Metal (Kitchen)	Hand
	Machine
Sodium-Hexa-Metaphosphate	Tractor
Spark Plugs	Parts
Tables	Trucks, Auto
Drafting	Construction
Tank	Washers
Accessories	Cut
	Galvanized
Tape	Welding
Electrical	Cables & Supplies
Testing Equipment	Electrodes
Balances	Wire
Textiles	Fencing
Wiping Cloths	Barb, Chain Link, Woven
	Rope
Thermometers, Hydrometers,	Valves
Barometers	Gate
	Plug-Lubricated
Tile	Pressure Reducing
Ceramic	
Structural	V-Belts

Subsection II

NATIONAL PETROLEUM COUNCIL

COMMITTEE ON MATERIALS AND CHEMICALS
REQUIREMENTS OF THE OIL AND GAS INDUSTRIES

SUBCOMMITTEE ON NATURAL GAS PIPE LINE TRANSPORTATION

List of Critical Materials
in Prospective Short Supply

February 1951

for

Natural Gas Pipe Line Transportation

Aircraft Parts	Insulation
Batteries	Magnesium
Dry Cell	Paint and Coatings
Storage	Containing Aluminum & Titanium
Cement	Paper
Compressor Parts	Kraft
Electrical Controls & Instruments	Radio
Electrical Fittings	Receivers
Porcelain	Transmitters
Electric Typewriters, Calculators,	Tubes
Adding Machines	Tile
Engine Parts	Building
Fiber Glass Pipe Wrapper	Drainage
Gaskets	Sewage
Copper	Tires
Packing and Tubing	Auto
Rubber	Truck
Graphite Anodes	Tools
Instruments	Machine Precision
Precision Indicating	Small Hand
Surveying	Welded Fittings
	Welding Rods

Subsection II

NATIONAL PETROLEUM COUNCIL

COMMITTEE ON MATERIALS AND CHEMICALS
REQUIREMENTS OF THE OIL AND GAS INDUSTRIES

SUBCOMMITTEE ON REFINING

List of Critical Materials
in Prospective Short Supply

February 1951

for

Refining

Acids Fatty	Koppers Koleneum
Asbestos Filter Coat	Lumber
Brick Common Fire and Shapes	Methylcellusolve
Calcium Chloride Lime	Nitrobenzene
Cement Portland	Oils Castor Neats-foot Pine Vegetable
Cotton Duck Filter Covers	Pentachloro Phenols
Dichlorethylether (Chlorex)	Pine Tar
Dowtherm	Polybor Chlorate or Borascu
Emulsion Breaking Compounds	Potassium Nitrate
Filter Aids Celite Dicalite HiFlo Super Cel	Rags & Waste
Formaldehyde	Shellac
Glycerin	Soap Flakes For Grease Manufacturing
Halowax	Sodium Nitrate Nitrite
Hydroquinone	Talc
Isopropyl Esters	Thanite
	Wax Carnauba

Subsection II

NATIONAL PETROLEUM COUNCIL

COMMITTEE ON MATERIALS AND CHEMICALS
REQUIREMENTS OF THE OIL AND GAS INDUSTRIES

SUBCOMMITTEE ON EQUIPMENT

List of Critical Materials
in Prospective Short Supply

February 1951

for

Equipment

Acid Stearic	Methylene Ketone
Batteries Dry Cell Storage	Oils Special Compounds
Brick Fire	Paints
Carbon Black	Perchloroethylene
Chrome For Plating	Plastic Coating
Copper Gaskets	Retorts
Dibutyle	Stop Cocks Brass
Dresser Cutters	Sulfur
Electrical Equipment	Teflon
Files	Thiolate
Film	Tires Industrial Solid Pneumatic
Fire Protecting Equipment	Tool Bits 18% Tungsten, Cobalt
Leather Belting	Tools Hand
	Trichloroethylene
	Wire Box Stitching

Subsection II

NATIONAL PETROLEUM COUNCIL

COMMITTEE ON MATERIALS AND CHEMICALS
REQUIREMENTS OF THE OIL AND GAS INDUSTRIES

FOREIGN SUBCOMMITTEE

List of Critical Materials
in Prospective Short Supply

February 1951

for

Foreign Operations

Acetone	Castings Nonferrous & ferrous
Acids Hydrochloric	Caustic Soda Liquid
Acryloid 150	Cement Building
Alox Compound #475 & #488	Clorafin 42
Auto & Construction Equipment Bearings Cars Electrical Systems Engines Tractor Parts Trucks	Copper Sulfate Cork Cotton Canvas
Babbitt Metal	Daxad #23
Batteries Storage	Disodium Phosphate
Bentonite	Dodecyl Benzine Sodium Sulfate
Blown Selector	Dowtherm
Bolts Nonferrous	Dyes Gas Oil
Brick Common	Electrical Equipment Generators Motors Starters Transformers Wiring Devices
Burlap Bags	Emulsion Breaking Compounds
Calcium Carbide Chloride	

Foreign Operations (Cont'd) - In Prospective Short Supply

Equipment	Oils
Air Conditioning	Animal
Bearings	Fish Rosin
Compressors	Lard
Diesel Engines	Nitrated Lard
Pumps	Sperm
	Vegetable
Fiber Conduit	
	Okemco
Forgings	
Nonferrous & ferrous	Paratac
Freezone	
	Pharmaceuticals & Bandages
Gum Ghatti	
	Pipe
Halowax	B & S
	Cast Iron
Insulation	Flanged & Soil
Asbestos	Sewer, Vitrified
Magnesia	
Ionol	Potassium
	Hydroxide
Iron Sulfate	Nitrate
Laboratory Supplies	Pyrenone
Balances	
Microscopes	Rhodine
Pyrex Products	
Test Equipment	Santodex, Santolube, Santopoid
	Santopour
Lead Naphthanate	
	Silicate of Soda
Leather	
	Soap
Ledsoap	Aluminum
Lubricants	Sodium
	Aluminum Sulfate
Machinery	Nitrate
Metal Working	Nitrite
	Sulfate
Nails	
	Textiles
Nitrobenzene	
	Tools
Odorant RT13A (Hardesty)	Hand
	Tret-o-lite
	Triton X155
	Welding Electrodes

COMMITTEE ON MATERIALS AND CHEMICALS
REQUIREMENTS OF THE OIL AND GAS INDUSTRIES

CHAIRMAN - Reese H. Taylor
Union Oil Company of California
Los Angeles, California

<u>DIVISION OF INDUSTRY</u>	<u>SUBCOMMITTEE CHAIRMAN</u>	<u>COMPANY</u>	<u>CITY</u>
<u>DRILLING:</u>	A. W. Thompson	American Association of Oilwell Drilling Contractors	Houston
<u>PRODUCTION:</u>			
Crude Petroleum	Robert L. Foree	Texas Independent Producers & Royalty Owners Association	Dallas
Natural Gas	D. A. Hulcy	Lone Star Gas Com- pany and American Gas Association	Dallas
Natural Gasoline and LPG	W. K. Warren	Warren Petroleum Corporation.	Tulsa
<u>TRANSPORTATION:</u>			
Ocean-Going Tanker	Millard G. Gamble	Esso Shipping Com- pany	New York
Barge & Lake Tanker	Paul G. Blazer	Ashland Oil & Re- fining Company	Ashland, Kentucky
Rail	B. C. Graves	Union Tank Car Company	Chicago
Tank Truck	S. F. Niness	National Tank Truck Carriers, Inc.	Downing- town, Pa.
Petroleum Pipe Lines	B. I. Graves	Tide Water Associa- ted Oil Company	New York
Natural Gas Pipe Lines	W. G. Maguire	Panhandle Eastern Pipe Line Company	New York
<u>REFINING:</u>	Robert E. Wilson	Standard Oil Com- pany (Indiana)	Chicago

Committee on Materials and Chemicals
Requirements of the Oil and Gas
Industries (Cont'd)

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<u>DIVISION OF INDUSTRY</u>	<u>SUBCOMMITTEE CHAIRMAN</u>	<u>COMPANY</u>	<u>CITY</u>
<u>DISTRIBUTION & MARKETING</u>			
Petroleum	B. L. Majewski	Deep Rock Oil Corporation	Chicago
Natural Gas	Stuart M. Crocker	The Columbia Gas System, Inc.	New York
<u>EQUIPMENT:</u>	T. Sutter	Petroleum Equip- ment Suppliers Association	Los Angeles
<u>FOREIGN:</u>	John R. Suman	Standard Oil Com- pany (N.J.)	New York

