

FORM NO. 1044 01-60

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CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT



25X1

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COUNTRY Poland/Czechoslovakia/Italy/Soviet Ukraine/Belarusian Republic
Yugoslavia

SUBJECT Details on Penicillin Plants Shipped to Europe by UNRRA
NO OF PAGES 3

PLACE ACQUIRED ---
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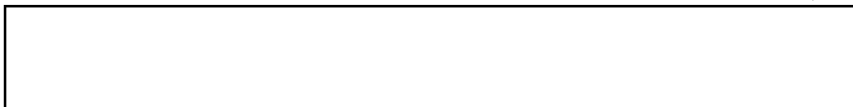
DATE ACQUIRED BY SOURCE May 51
SUPPLEMENT TO REPORT NO. 25X1



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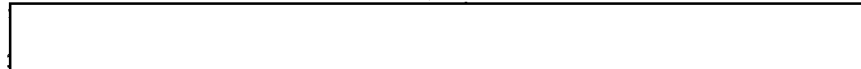
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SOURCE



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- 1. Penicillin plants were supplied to Poland, Czechoslovakia, Italy, Soviet Ukraine, Belarussian Republic and Yugoslavia. In the case of the first



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materials from Czechoslovakia. In general, the necessary equipment for all departments involved in the production of penicillin, and sufficient raw materials for about nine months operation were supplied and delivered. I have copies of reports of the equipment sent to each of these five countries. Copies of these reports are available from the CIA Library. These reports show:

- A. The name of the contractor,
- B. The Contract number,
- C. The quantity ordered,
- D. Description of the item,
- E. The value, and
- F. The name of the boat, the sailing date and the ocean bill of lading number.

- 2. In order to facilitate the assembly of these plants in the receiving country, installation, operating and maintenance manuals and blueprints were sent with the equipment. Copies of these documents were packed in each case with the material shipped. Additional duplicates were given to the trainees brought to the US by UNRRA to learn the processing methods. A list of these technical documents which were shipped with the equipment is also available from the CIA Library.

- 3. Shipping information in the extreme right column of the report is based on outbound ocean bills of lading. In instances where products have been cancelled and, therefore, do not appear on the ocean bill of lading, appropriate notations are made in the report. These shortages are very minor and are adequately indicated. Mainly they are shortages of galvanized and black pipe, which at that time was extremely difficult to get.

- 4. UNRRA was responsible for delivery only to ports of destination, and it must be assumed that with the exception noted in the report, all goods were landed at such ports, since there have been no claims for shortage. Responsibility for movement from ports of destination was upon the receiving government, and if shortages or misshipment occurred between port of destination and final inland destination, these would have to be investigated by the receiving government, since they would not be a matter for UNRRA records.

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5. All of the above applies only to the penicillin plants for the five countries mentioned. 25X1
6. The penicillin pilot plant shipped to Yugoslavia was acquired wholly and intact from the Marck Co., Montreal, Canada, through the Canadian Commercial Corporation. It was dismantled, adequately labeled, and blueprinted by engineers employed by the Canadian Commercial Corp. Shipment was effected in total on the SS , a Yugoslavian boat out of Montreal about October 1947. Only the one movement was involved. Full engineering data are in the hands of the Yugoslav government. Specifically, I believe the agency is .
7. The Yugoslavs had the problem of whether to buy this plant or feedstuffs. Tito himself decided they must have the plant. His decision was so late that no Yugoslav technicians could be trained and the unit could not be purchased piece by piece as the others had been. A Canadian engineering firm, I believe Ross of Montreal, was appointed to make a complete survey and drawings, which they did.
8. Each of the plants described above has the small monthly capacity of 50 billion Oxford units amorphous penicillin. Production of crystalline penicillin probably would be somewhat less in terms of Oxford units. The difference could be more than made up by replacing the Sharpies Centrifuges furnished with each plant by the modern Fodbelniak Extractors now in general use for penicillin production in the US. This equipment cannot be used for spinning viruses but could be for heavier germs. There is no system of solvent recovery.
9. Sufficient material and equipment were furnished to the Chinese government to permit the establishment of two such plants as are described above. This material was all delivered to Shanghai, and I believe is under the jurisdiction of a special Chinese government organization known as the Board of Trustees Rehabilitation Administration.]
10. Processing knowledge was conveyed personally to the trainees brought to Canada for this purpose, and if documented in any way, would be found only in the notebooks and data taken by the trainees themselves. Processing knowledge varies widely with each plant, and is carefully guarded as a trade secret. There is no standard method of penicillin production, except in principle. Method varies, as previously stated, from plant to plant, as each plant seeks a competitive "edge" by lowering production costs. The only method of obtaining processing information is by engagement of consulting engineers in possession of the production methods and having them actually teach native personnel how to operate an antibiotic plant. These remarks apply to the production of Streptomycin, Chloromycetin, Aureomycin and other antibiotics produced by the deep fermentation process.
11. Among the trainees sent to Canada and instructed at the Spaulding Division of Connaught Laboratories, the Czechs were the brightest and got the most out of it. The USSR sent political appointees, one of them was a chemist instead of a mycologist. His name was Chaidt; he couldn't speak English and could not grasp the theory at all. The Soviet group did not learn a great deal because of the low caliber of its men. The Poles also were completely incompetent. The Italians were only fair. After six years of blackout on such developments during the war, it was very difficult for them all.
12. As to the present status of the plants, I greatly doubt whether they are doing very much. In June 1947 I went to Prague for a meeting with the various groups assigned to operating the equipment. I saw the unit at Hustky near Prague, which was under an engineer named Kabatek. They were in trouble and even all the assistance I could give them did not help a great deal. Although they were the smartest of all, they could not truly grasp the principle of the process. The Poles came too but their situation was hopeless. Part of the equipment had been lost and their government had turned the refrigeration units over to the Polish fishing industry. The Soviets did not send their representatives and I have no idea of their present state although they were supposed to have been

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located at Minsk and Kiev. The Italian plant at Rome was in production but since has been absorbed by a larger set up. I heard recently that the Yugoslav unit is operating now at very low capacity and is situated at Belgrade rather than at Zagreb as originally thought.

13. At the time of the Prague meeting the following were responsible in their respective countries:

Czechoslovakia - Director of Penicillin Production
State Institute of Hygiene
Rostoky u Praha

Poland - Ministry of Industry and Commerce
Poznanska 15, Warsaw
Minister Ruminski

Operational: Centralny Biuro Farmacji
Lwowka 17, Warsaw
Director Szumowski

Italy - Istituto Superiore di Sanita
Viale Regina Margherita 299
Rome
Senor G. Fenco and Senor A. deFivoli

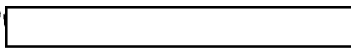
USSR - Council of Ministers
24 Sovetskaya Street
Minsk
Mr. I. Belinsky

Council of Ministers
Kiev
Mr. V. Khomyak

(Messrs. Kosulic and Khomyak were in the US at the time but have now returned to the USSR and are undoubtedly associated with the project).

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1. PENICILLIN PLANT

Technical Information

- 1 UC-269-PA-3, CEB-B-1687/A1-1938

Canadian Papermill Board Co., Ltd.
Sherbrooke, Quebec, Canada
Tread Machine Company, South Scituate,
Massachusetts.

INSTRUCTIONS FOR INSTALLING AND OPERATING BIRD-FLOWS UNIVERSAL FILTERS

- 2 UC-266-PA-1, CEB-B-1758/A1-3011

Canadian Westinghouse Co. Ltd.
Hamilton, Ontario, Canada

ROUTINE CASE INDUCTION MOTOR

- 1 Instruction Series # 8-598
2 Descriptive Bulletin #11-800

- 3 UC-266-PA-1, CEB-B-1758/A1-3012

Leland Electric, Canada, Ltd.
73 Wickstead Road, Oshawa, Ontario, Canada

THREE PHASE MOTORS

- 1 Blue prints # X 796

- 4 UC-266-PA-1, CEB-B-1758/A1-3013

The Scott Turner Machine Co., Ltd.
191 Barton Street, Hamilton, Ontario, Canada

- 5 UC-266-PA-1, CEB-B-1758/A1-3014

The Canadian Fairbanks Morse Co., Ltd.
266 Sparks Street, Ottawa, Ontario, Canada

CENTRIFUGAL PUMPS

- Bulletin # 9930-8

- 6 UC-266-PA-1, CEB-B-1758/A1-3015 and Miscellaneous # 718

Taylor Instrument Companies of Canada Ltd.
110 Church Street, Toronto, Ontario, Canada

RECORDING INSTRUMENTS

- 1 Solenoid Valve Bulletin #98050
2 Temperature and Pressure Recorder Bulletin #98071
3 Electrical Valve Bulletin #98072
4 Pressure Recording Controller Bulletin #98036

- 7 UC-266-PA-1, CEB-B-1758/A1-3016

Balmain and Williams Ltd.
18-22 Bank Avenue, East Toronto, Ontario, Canada

ANTISTATIC

- Bulletin on Liquid Static

I PENICILLIN PLANT

Technical Information

1 UC-289-PA-3, CED-B-1887/A1-1958

Canadian Niagara Power Co., Ltd.
Shortbrooks, Ontario, Canada
The Turner Machine Company, South Halifax
Canada
Canada

INSTRUCTIONS FOR INSTALLING AND OPERATING BIRD-TONGUE UNIVERSAL FITTERS

2 UC-266-PA-1, CED-B-1758/A1-3011

Canadian Westinghouse Co. Ltd.
Hamilton, Ontario, Canada

EQUIPMENT CASE INDUCTION MOTOR

- 1 Instruction Section # 4-598
- 2 Descriptive Bulletin # 11-300

3 UC-266-PA-1, CED-B-1758/A1-3012

Leland Electric, Canada, Ltd.
73 Wickstead Road, Oshawa, Ontario, Canada

THREE PHASE MOTORS

3 Blue prints # Y 706

4 UC-266-PA-1, CED-B-1758/A1-3013

The Scott Turner Machine Co., Ltd.
191 Barton Street, Hamilton, Ontario, Canada

5 UC-266-PA-1, CED-B-1758/A1-3014

The Canadian Fairbanks Morse Co., Ltd.
244 Sparks Street, Ottawa, Ontario, Canada

CENTRIFUGAL PUMPS

Bulletin # 5830-2

6 UC-266-PA-1, CED-B-1758/A1-3015 and Miscellaneous # 710

Taylor Instrument Companies of Canada Ltd.
110 Church Street, Toronto, Ontario, Canada

RECORDING INSTRUMENTS

- 1 Solenoid Valve Bulletin # 2050
- 2 Temperature and Pressure Recorders Bulletin # 2071
- 3 Motorized Valves Bulletin # 2072
- 4 Pressure Recording Controller Bulletin # 2116

7 UC-266-PA-1, CED-B-1758/A1-3016

Balance and Elliotts Ltd.
18-22 North Avenue, York Mills, Ontario, Canada

ANEMOMETERS

Bulletin on Liquid Flow

8 WI-1647, 778-773)

General American Transportation Corporation
10 East 49th Street, New York 17, New York

TURBO-MIXERS

- 1 Lubricating Instructions
- 2 Assembly of 3 & Drive Unit, Prints # 27-282, 27-245, 27-246-1

9 UC-264-PA-2, CEB-B-1758/A1-3087

Donlison Bridge Co., Ltd.
1139 Shaw Street, Toronto, Ontario, Canada

AUTOClaves

- 1 Markings
- 2 Sketch # 1
- 3 Drawings # 1, 2, 3.

10 UC-264-PA-3, CEB-B-1758/A1-3086

English Electric Company of Canada, Ltd.
31, Catharines, Ontario, Canada

QUINDEL CASE NOTCHES

Bulletin # 102-4 and Form DFB-22-B

11 UC-264-PA-1, CEB-B-1877/A1-3018

Richardson Agencies.
454 King Street West, Toronto, Ontario, Canada
(The Ffandler Company, Klyria, Ohio, USA)

TANKS AND GLASS LINED EQUIPMENT

- 1 Diagram # C M290-1
- 2 " # C M119-1
- 3 " # C M120-1
- 4 " # C M121-1
- 5 " # C M122-1
- 6 " # C M123-1
- 7 " # C M124-1
- 8 " # B M125-1
- 9 Bulletin # 634

12 UC-264-PA-2, CEB-B-1877/A1-3019 and 25 illustrations # 674

Whiting Corporation, Ltd.
45 Richmond Street, Toronto 1, Ontario, Canada
(Whiting Corporation, 12nd and Independence Street,
Philadelphia 40, Pennsylvania)

SHARPLES SUPERCENTRIFUGES

- 1 Instructions for Supercentrifuge (112 Diagrams # C-339 B and # 339 B)
- 2 Instructions for Laboratory Centrifuge

13 GP-3028

F. J. Stokes Machine Company
Tabor Road, Glenside, Pennsylvania 28, Pennsylvania

VACUUM CASSE-INTEGRATED TUBE

Booklet # WD-98-1/46

14 WA-3099, TFS-740

Whetzel Instrument Company
Harrison and Fourth Streets, Chicago 7, Illinois

THERMOSTAT CONTROLS

- 1 Instructions for Whetzel instruments Model 5201
- 2 Price List # O 203-2
- 3 Bulletin # O 203-2
- 4 Instruction Sheet # 5527
- 5 " " # 5499 A
- 6 " " # 5307
- 7 " " # 5308
- 8 " " # 5046 A
- 9 " " # 5445 B
- 10 " " # 5378 A
- 11 " " # 5562
- 12 " " # 5506 A

15 WA-3124, TFS-613

Whetzel Instrument Company, Inc.
17 Madison Avenue, New York 16, New York

16 WT403

- 1 Battery Connections for Gamma pH Automat
- 2 Additional Instructions for Gamma pH Meters
- 3 Directions for pH Meter

16 Miscellaneous 8714

Paramount Rubber Company
1401 Northlawn Avenue, Detroit 4, Michigan

AIR FILTERS

see Blueprint

17 Miscellaneous 8741 and UC-289-PA-2, CES-B-10-57/A1-3025

Fischer and Porter Company
Allentown, Pennsylvania

FLUORATORS AND ROTAMETERS

- 1 Fluorator, Series 740, Catalog Section 25-B
- 2 Dimension Chart # O-17131-0
- 3 Dimension Drawing for Rotameters # O-10900-1
- 4 " " " " # 7-12206-2
- 5 Instruction Manual for Fluorator, Bulletin # 15-8

18 Miscellaneous # 8734

Mason-Neilan Regulator Company
119 1/2 Adams Street, Boston 26, Massachusetts

BACK PUSHER REGULATORS

- 1 Instructions Bulletin # 216
- 2 Blueprint # C-371-B-4
- 3 " " # C-371-A 3

19 Miscellaneous # 6737

Robert D. Shaw
Hartford, Connecticut

ASSAY OUP INSTRUMENTS

Special Report from SCIENCE, September 20, 1946, Vol. 121, page 275
"Dropping Device for Cylinder Plate Assay of Penicillin"

20 UC-407, C.A-17-70/1470

F. J. Stokes Machine Company
3934 Taber Road, Jersey P.O., Philadelphia 20, Pennsylvania

STORES ELECTRIC WATER STILL MODEL, INSTRUCTIONS FOR INSTALLING AND OPERATING

21 UC-407, C.A-17-70/1470

W. H. Walsh Scientific Company
1515 Sedgwick Street, Chicago 10, Illinois

VACUUM END-BELL PUMPS, COMPLETE SERIES

II. PREVIOUS PLANT

Leading Technical Information

1 DC-266-PA-3, CRD-8-1887/A1-8998

Canadian Ingersoll Rand Co. Ltd.
Sherbrooke, Quebec, Canada
(Bird-Young Filters Bird Machine Company, South Windsor, Connecticut)

BIRD-YOUNG FILTERS

Arrangement Drawings and Exploded Parts List To be forwarded

2 DC-266-PA-1, CRD-8-1758/A1-8998

Canadian Ingersoll Rand Co. Ltd.
Sherbrooke, Quebec, Canada

3 DC-266-PA-3, CRD-8-1758/A1-8998

Canadian Ice Machine Company
44 Palliser Street, Toronto, Ontario, Canada

CANADIAN ICE MACHINERY PARTS UNITS

To be forwarded

4 DC-266-PA-2, CRD-8-1887/A1-8998

J. P. ... Co., Inc., E. Fort ...
Oliver Building, Pittsburgh, Pennsylvania

DEVICE VACUUM CHAMBER UNITS

Included

5 DC-266-PA-2, CRD-8-1887/A1-8998

Canadian Laboratory Supplies Ltd.,
22 Grenville Street, Toronto, Ontario, Canada

OIL TREATING CENTRIFUGES

No reply received to request
for technical data

6 DC-266-PA-3, CRD-8-1887/A1-8998

F. S. B. Record and Co., Ltd.
641 Bow Mills Building, Montreal 2, Canada

ELI V STRAIN ELECTORS

Canadian Commercial Corporation
trying to get information Will
forwarded

7 SA-255, TB-1256

L. A. M. Industries and Trading Corporation
127 Riverside Drive, New York, New York

COLD STORAGE UNITS

No reply received.

8 SA-255, TB-1257

Harold Suter
6703 Atlantic Avenue, Atlantic City, New Jersey

COLD STORAGE UNITS

- 2 -

9 EA-3025, TD-1256

John Amos Air Conditioning Co., Inc.,
4 1/2 South Fourth Avenue, El. Verona, New York.

REFRIGERATING UNITS

No reply received

10. NO-344/EL3

Richardson Agencies
454 King Street, Toronto, Ontario, Canada
(The West Company, Flourisville, Pennsylvania)

CAPPING MACHINES

No reply received

SHIPMENT OF SPECIAL EQUIPMENT TO STURGEONELL
 IN
 C.A.S. 8-1756/VI-266

CONTRACTOR	Serial #	Quantity Ordered	MATERIAL	PAID IN Advance	SHIPMENT
Canadian Ingersoll Rand Co. Ltd.	AI-2777	1	Local Canadian Ingersoll Rand Class EB 1-21 Class 2 construction air compressors complete with accessories (price incl.).		
			1 ea. Filters, Air Inlet } These two items not included in shipment as attached. 1 " Bushings, Intake } Shipped Same w/ L228 Dec. 21, 1947 1 " Receiver, Air, 21" x 12" 1 " After Coolers, SS No-2, with Safety Valves \$ 48,908.64 1 " Motor, 60 H.P., 380/220V, 3 phase, 50 cycle 1 " Com-converters, Starting, for above 60 H.P. motor.		Asphalt May 21, 1947 S/L L228
	PA-1	1	Lot 7 Canadian Ingersoll Class EB and accessories (price inclusive):		
		1 ea.	Motor, 20 H.P., 380/220V, 3 phase, 50 cycle including starting components.		
		1 "	Base, Sliding, for above motor.		
Canadian Westinghouse Co. Ltd.	AI-2011 PA-1	2	15 h.p., 3 phase, 50 cycle, 1500 RPM, 380/220V, 40°C rise, protected N.B. squirrel cage induction motors with normal starting torque and low starting current and 10 amp bases for motors complete with starters. \$ 496.05		Chalmers Oct. 3, 1947 S/L L223
Leland Electric Canada Ltd.	AI-2012 PA-1	3 3	Motors, 3/4 or 1 H.P. 380/220V, 3 phase, 50 cycle.	\$ 122.00	Frederick Engles Apr. 22, '47-S/L1229
The Smart Turner Machine Co. Ltd.	AI-2013 PA-1	1	Fig L28 side section centrifugal pumps, standard fitted with open type iron impeller, ball bearings, direct connected to 1 1/2 h.p. 3 phase, 50 cycle, 220/380V. 1500 RPM standard impregnated protected type motor, together with manual starting switch having thermal overload protection. \$ 157.77		Sweseples July 19, 1947 S/L L225

MINISTRY OF PUBLIC WORKS AND SUPPLY IN BRITISH COLUMBIA

C.S.B. 2-174, B.C. 244

CONTRACTOR	Serial Number of Material	QUANTITY	UNIT PRICE	TOTAL	REMARKS	
The Canadian Petroleum Refiners Co.	AL-3004 2	2			2 Fairbanks-Deere 1 1/2" Figure 9311, all iron centrifugal pumps mounted on base and direct connected through flexible couplings to and including an Electric Motor & Equipment Co. 3 h.p., 3 phase, 50 cycle, 380/220V, 15.0 RPM, 50% r.f.m., standard protected type of electric motor.	Examples July 19, 1947 8/1 1216
	AL-3004 1	1		\$ 833.96	2 Fairbanks-Deere 1 1/2" Figure 9311, all iron centrifugal pump mounted on base and direct connected through flexible couplings to and including an electric motor & Equipment Co. 1 1/2 h.p., 3 phase, 50 cycle, 380/220V, 15.0 RPM, 50% r.f.m., standard protected type electric motor.	
Taylor Instrument Corporation of Canada, Ltd.	AL-3005 PA-2	1			1 Thermometer, Instrument Recording, (FAIRCHILD) Taylor, 2 pen record, with left and right tube system, 2" leads, with a 3/8" rigid 18-8 stainless steel and wire connection assembly. Range of instrument, 0-2257, with over-range protection 8 and 16.02-136	Alfred Flattery Jan. 3, 1947 8/1 6
		1			1 Thermometer, Recording, 2 pen, chart (same as above except for 10" leads & 22-3/4" stem).	
		1		\$ 654.85	1 Thermometer, Recording, 1 pen, (same as above except for 10" leads & 22-3/4" stem).	
Delamere & William Ltd.	AL-3006 PA-2	2			2 Type W8 agitators having 1 h.p., 380/220V, 3 phase, 50 cycle, 150 RPM open rotor motor stainless steel shaft, and props for use in tank 45" dia. x 4 ft. deep.	Examples July 19, 1947 8/1 1217
		2			2 Tanks, 7' x 15'	Notes May, 1947 8/1 1221
		3		\$ 6,905.02	3 Tanks, 40" dia. x 3' x 5' 6" mild steel complete with motor motor coupling and also including 50 RPM	
General American Transportation Corp.	TR-2773 2	2		\$1,887.60	2 Turbo-mixers, impellers, agitators, for agitation without motor. (EAL 687)	Notes May 27-8/1 1212
Anti-Martins, Bldg., Feed & Brnz.		1			1 Sample pure penicillin G crystal form 1067	
		1			1 Sample pure penicillin A crystal form 855 (non-standard)	Turned Over to Trudome

RECEIPT OF FERRILLIS EQUIPMENT TO WEL. HUBSIA

G. S. B. 8-1/24/46 (C-36)

CONTRACTOR	Serial Quantity #	DESCRIPTION	UNIT PRICE	TOTAL	REMARKS
Taylor Instrument Co.	Al-3098	2 only Single Pen Taylor Recording Thermometers Chart # of 1902 Range 0-100° F. Lead 18-3 1/2" Accurate tubing stem length 24" with one Yrisc Air Filter and one air reducing valve # and one Taylor Mono Steel Stem Action Diaphragm valve.			American Victory March 25, 1947 8/1 1
	Al-3098	4 only single Pen Taylor Recording Thermometers Chart # of 1902, Range 0-100° F. Lead, 18-3 1/2" Accurate tubing, stem length 20" with one Yrisc Air Filter and one air reducing valve # and one Taylor Mono steel stem Action Diaphragm valve.	\$1,922.32		
	PA-3	4 only Taylor Range Thermometers			
Precision Bridge Co., Ltd.	Al-3097	2 only Articulating dry steam strillising of Pistonless shaft, diameter 3/8", length 7".	\$1,691.80		American Victory Dec. 13, 1946 8/1 29
Canadian Ice Machine Co.	Al-3099	1 only Canadian Ice Refrigerator (with Compressor & Piping)	\$ 541.76		Charlton Mar. 25, 1947 8/1 1202
English Electric Company, of Canada Ltd.	Al-3060 PA-3	2 only Electrical Cage Motors, Frame 106, 15 h.p., 1500 RPM 230/260V 3 phase, 60 cycle, 50 DEG. C. Rise, continuous rated, protected type, with antifriction bearings and with sliding in a bar without pulley.	\$ 414.25		Average July 10, 1947 8/1 1225
United Steel Co., Ltd.	Al-3108	15 Bolt Drive, 2 1/2", Dodge T., for 15 h.p. motor, bolt and pulley to fit on motor	\$ 180.53		Not yet shipped Availability 8/1 138
		4 Shafts			
Toronto Coppermithing Co. Ltd.	Al-3107 PA-1	2 Can Cams 6 1/2" dia., 10 gal., complete with gauge and safety valve	\$ 693.83		Federated Engine April 21, 1947 8/1 1252
Toronto Coppermithing Co. Ltd.	Al-3107	1 Valve, for U.S. Callum Stainless Steel with Code	\$ 570.27		

REPORT OF PURCHASES SUPPLY UNIT TO KRAL MEMORIAL
(S.S.P. - 9-1887/76 289/77)

CONTRACTOR	Serial #	Quantity Ordered	MATERIAL	FAV OR Value	REMARKS
Chrysler A. Glass Co. Washington	AL-1045	1	Four vertical finned glass-lined steel tubes with shell and tube construction completely covered with a 3/16" mesh and no. 10 mesh 1/2", 2-3/4" openings and 1-3/4" opening. 85, 86, 97		Order S.A. on February 18-21-1947 S/A 1207
	AL-1045	1	Prismatic heat exchangers (flange tube sheet as on pages 8 & 9 Prismatic Condenser Serial No. 877) type 304 stainless on the tube side and plate carbon steel on the shell side. Dimensions of four tubes 2" finished, for coolant circulation of tubes are type 304 stainless 1/4" OD 14 gauge 13' long. All tube sheets 3/4" thick design pressure 75 lbs. 1 sq. in. both shell and tube sides		ASBOLD May 27, 1947 S/A 1207
Chrysler A. Glass Co. Washington	CP 1000	5	Pumps, 3 to 10 gpm, operating at a total netting head of 20', 1 1/2" x 4" electric, fitted for 1/4" suction and powered by a 1/2 hp. motor, 220/440 V. 1 pole electric motor. \$ 11,740.00		Chrysler order May 19, 1947 S/A 0-11
	TR 1207	1	Cold Storage Unit complete. Each unit to be complete with two self-contained refrigerating units and each refrigerating unit to have two liquid compressors, 1 hp., 3 phase, 220V, 50 or 60 cycle electric motor air-cooled condenser, blower type water circulating evaporator. Each storage compartment is to have two cooling coils. The cold storage unit approx. dimensions 12' x 24' x 7'6", to be made up of sections. The refrigerating unit should be fully self contained and ready stored in such a way it could be possible to use two units in each a way it could be controlled by one control panel. Total capacity approx. 240 units of 1/2 lb. each. (NA 2855)	\$ 66,435.00	(1) Refrigerator units Chrysler order May 19, 1947 S/A 0-11 (2) Refrigerators for above unit to be shipped from the Chrysler order Units were loaded on the James Ford Hodges to Norfolk July 2, 1947. These units were shipped at Norfolk to the American Victory for Coasting Ship with a on arrival in Coasting Units were shipped to Odessa - via Lyttelton (New Zealand.)
				\$ 21.00	General Chrysler order June 10, 1947 S/A 1204

SHIPMENT OF PHARMACEUTICAL MATERIALS TO RUSSIA
 C.I.B. #1087/UC 1947

Page 2

CONTRACTOR	Serial Quantity #	Material	FAS US Value	SHIPMENT
John Mann Air Conditioning Co.,	78-1238	1 Refrigerating unit, self contained, portable, complete with service compressor, 3 H.P. 220V. 3/ or 60 cycle electric motor, air cooled condenser, blower type water defrosting evaporator. R.T.S. capacity with Freon: 10 degree below at 70 degree refrigerant - 19,000 B.T.U./hr. 100 degree ambient at 10 degree refrigerant 2,500 B.T.U./hr. unit furnished should be same unit used with storage box above, with spare parts. (at 2015)	\$6,116.00	Vladivostok May 15, 1947 S/L 1219
F. J. Stokes Co.	CP-1492	3 Vacuum Cans, Walcott	\$ 400.00	Michael Frum Feb. 25/47 S/L 1243
The West Company Philadelphia, Pa.	Type 1328 P&H 2362	1,000.000 Stoppers, soft rubber, to fit 20cc penicillin bottles; #87 rubber stop composition, paraffined; to be stopper 8-37. (24-191,791-129-6)	\$4,255.00	Sovamles July 18, 1947
The West Company Phoenixville, Pa. (Richardson Agencies)	812	1 Machine, capping, semi-automatic with 3/4 h.p. 60 cycle, 110/220 V. AC motor; turret type wiper-per designed to cap 8 crimp 20 mm size, triple seal aluminum caps of penicillin bottles, at the rate of 60 to 100 per min. a. (IC 3-4)		Not Yet Shipped Availability 88 3065
	812	500.000 Triple Seal Aluminum Caps	\$4,720.17	
		500.000 Single Seal Aluminum Caps		
Aluminum Co. of America	Type 1469 P&H 2223	1,800,000 Closures, aluminum, 20 mm. size fitting # 8-37 rubber stoppers for penicillin bottles 3 piece combination stoppers, Aluminum Co. of Ameri a # 20-120 (24-191,791-129-6)	\$5,030.43	General Chernikovsky June 30, 1947 S/L 304
Wharton Glass Co.	TPS 5123	6,997 green Vial, glass, borosilicate, practical fill 20cc fill to base of neck, 24cc, O.S. 3mm, height 58mm. I.S. of neck 13mm. To be USP type 1 glassware Model # 5-205. (24-191,791-129-5)	\$23,231.30	Salm May 21, 1947 S/L 316

LIST OF MATERIALS AVAILABLE TO DIS-COMMUNIA

Page 9

CONTRACTOR	Serial Number of Material	MATERIAL	QTY	UNIT PRICE	TOTAL VALUE	DATE	STATUS
Chem Products Refining Co.	Qty 543 24,287 lbs. P/N 2011	Chem. waste. Available from Chem Products Refining Co., 17 Battery Place, N.Y. (61-917/961-058-21, 190 tons)	543	\$1,777.15	\$971,195	May 21, 1947	Q/A 135
	20	Same as above		\$5,776.00	\$5,776.00		Cancelled
Wellman's Chem. Works	Qty 605 483 lbs. P/N 2009	Potassium dihydrogen phosphate (non-toxic). Available from Wellman's Chem. Works, St. Louis, Mo. (30-111/786-042-21)	605	\$26.70	\$16,153.50	June 20, 1947	Q/A 134
Wellman's Chem. Works	Qty 617 217,400 lbs. Lanthan (all grades) P/N 2008	Commercial grade in 100 lb. drums (61-917/961-042-24)	617	\$13.10	\$80,972.10	August 24, 1947	Q/A 133
Adair's Company	Qty 618 11,973 lbs Potassium defoaming agent (61-2768)		618	\$5.10	\$31,267.80	November 15, 1947	Q/A 132
Out of Toledo	P/N 2043 976 pairs Dish, Petri, top 100 x 15 mm bottom 95 x 15 mm Drex		976				
Out of Toledo	200 lbs. Chemical, USP, fused (acid carbolic)		200	\$16.14	\$3,228.00		
Out of Toledo	200 lbs. Magnesium Sulphate crystal		200				

Pod '4 Out of Toledo

Date:
May 12, 1947
Q/A 130

ORDER OF PURCHASE MATERIALS TO HINDUSTAN
(Fertilizer Dept.)

CONTRACTOR	QUANTITY	MATERIAL	UNIT PRICE	AMOUNT	REMARKS
J. F. Fisher Chem. Co.	16,900 lbs.	Calcium formate, technical, avail. from Chem. Co. (191/700-000-1)	\$1.166.30	\$19,600.00	Actual quantity Jan 20, 1947
Robert Berry & Co. Ltd.	22,300 lbs.	Phosphoric Acid, 85% P ₂ O ₅ , 77% P ₂ O ₅ , not available from American Agri. Chem. (66-517) - 1947	\$6.003.00	\$1,338.66	Actual quantity Jan 20, 1947
W. H. A. Serv. Contract (S.S.S.)	1,000 lbs.	Acid Phosphatous (from England)	\$1.28.25	\$128.25	Actual quantity Oct. 11, 1947
J. F. Fisher Chem. Co.	400 lbs.	Sodium Hydroxide C.P. reagent, 64% NaOH	\$3.32.00	\$1,328.00	Actual quantity - 8/2 1947
Robert Berry & Co. Ltd.	1,000 lbs.	Sodium Hydroxide, technical flake, 100% pure (66-517)	\$1.50.00	\$1,500.00	Actual quantity - 8/2 1947
J. F. Fisher Chem. Co.	9 lbs.	Acid Sulphuric C.P. concentrated, 6.6% CP	\$1.40	\$12.60	Actual quantity - 8/2 1947
W. H. A. Serv. Contract (S.S.S.)	600 lbs.	Cystine L - Cystin - 94% NaOH	\$2.00	\$1,200.00	Actual quantity - 8/2 1947
J. F. Fisher Chem. Co.	24 lbs.	Tripin L. 75% Penicillin substance	\$23.00	\$552.00	Actual quantity - 8/2 1947
W. H. A. Serv. Contract (S.S.S.)	10 Kilos	Penicillin Extract (dried penicillin) 94% NaOH	\$5.27	\$52.70	Actual quantity - 8/2 1947
Robert Berry & Co. Ltd.	1 lb.	Glucose (Dextrose) USP II (66-517)	\$70.00	\$70.00	Actual quantity - 8/2 1947
W. H. A. Serv. Contract (S.S.S.)	2 long tons	Lactose B.P. Standard	\$6.68	\$13.36	Actual quantity - 8/2 1947
W. H. A. Serv. Contract (S.S.S.)	24 lbs.	Ferric Ferrous C.P.	\$5.50	\$132.00	Actual quantity - 8/2 1947
W. H. A. Serv. Contract (S.S.S.)	10 lbs.	Beef extract 94% NaOH	\$13.20	\$132.00	Actual quantity - 8/2 1947

ESTIMATE OF COSTS FOR THE YEAR 1954

CONTRACTOR	Quantity	UNIT PRICE	TOTAL	DATE	REMARKS
W. A. Rorer, Inc.	20-1000	200 lbs.	\$400.00	1-20-54	20-1000 200 lbs. Rorer 5-1/2" x 3-1/2" x 3/4"
L. J. Rorer, Inc.	20-1070	100 lbs.	\$200.00	1-20-54	20-1070 100 lbs. Rorer 5-1/2" x 3-1/2" x 3/4"
Core & Co., Ltd.	307	600 lbs.	\$1,800.00	4-10-54	307 600 lbs. Glass wool. Lead free and boron free. (See also 20-1071)
Chemical Process Corp.	20-1071	100 lbs.	\$200.00	4-10-54	20-1071 100 lbs. Glass wool. Lead free and boron free. (See also 20-1070)
Degussa & Ball, Ltd.	20-1072	1,000 lbs.	\$1,000.00	4-10-54	20-1072 1,000 lbs. Sodium Nitrate USP 731 9-1/2
P. H. B. Export Corp., S.J.	20-1073	40 cwt.	\$400.00	4-10-54	20-1073 40 cwt. Acid, Para-methane C2
Degussa & Ball, Ltd.	20-1074	50 grams	\$50.00	4-10-54	20-1074 50 grams Crystal Violet 931 Aceto (EC-517)
Difco Lab., Inc.	20-1075	50 lbs.	\$500.00	4-10-54	20-1075 50 lbs. Agar. granula or shreds, B2P (GA-304)
Degussa & Ball, Ltd.	20-1076	1.100 gm.	\$110.00	4-10-54	20-1076 1.100 gm. Sodium Thiocyanate (EC-517)
		22 lbs.	\$220.00		22 lbs. Canada wood
		20 cwt.	\$2,000.00		20 cwt. Oil immersion oil, B2P reagent
		25 lbs.	\$250.00		25 lbs. Sodium hypochlorite solution 5P
Core & Co., Ltd.	1005	2 each	\$400.00	4-10-54	1005 2 each liquid air trap 77mm. c.d. 25mm dia. of connecting tube - 20-1076 (EC-517)
Standard Oil Co. of S.J.	20-1077	5 gals.	\$150.00	4-10-54	20-1077 5 gals. Sterilizing lubricating oil. Pure paraffin oil. Fluorinated 100 - 125 mm 100

REPORT OF PURCHASES AND RECEIPTS

CONTRACT	Serial number	DESCRIPTION	PAID	DATE	REMARKS
		5 yds. Plastic tubing (Plyline 1/2" P.I.P. 1/2" wall)	\$ 14.80		Cancelled
Shelton Instrument Co.	10-740	1 ea. Controls, Unimostat, 500-1077, capacity 1000 (10-1079)	\$ 198.76		Delivered by ship Nov. 27, 1947
Geopline Corporation Duluth, Minn.	10-1044	40 ea. Balls, Charles Super Centrifuge (10-40-714)	\$ 120.00		American Victory Serial 262821 10-1044
Shelton Instrument Co., Inc.	10-635	2 ea. P.P. Motors, Lab. Model, 2000 RPM, 1/2" shaft	\$ 942.98		Delivered by ship Nov. 27, 1947
Geopline Engineering and Co. Ltd.	6 ea.	Carbon Rings, 1/2" dia. for 1/2" shaft, 1/2" thick Class 10-1-48 Class 1 construction air compressors (10-117)	\$ 139.53		Not yet shipped Availability 10-5699
Shelton Instrument Co. Ltd.	1470	1 ea. Water distillation systems, 1 to 5 G.P.H. (10-507)	\$ 297.25		Not yet shipped Availability 10-5470
		25 ea. Motors, stainless steel 2 1/2" (For Synlo. Studies only)			Cancelled
		5 ea. Pyreximeter, Type 11	\$100.000		
Plaster Scientific Co., Ltd.	1476	20 ea. Pyrex. tubes, screwthreaded 1/2" dia., 1/10 graduation	\$ 110.48		Plaster Scientific Dec. 6, 1947 1/1 1208
Plaster Scientific Co., Ltd.	1478	14 ea. Flasks volumetric, 50cc ea. ground glass (10-507)	14.24		
Shelton Instrument Co. Ltd.	1470	1 ea. Pump, all glass, 50 cc/motor 220V, 50 cycles, (10-507)			Not yet shipped Availability 10-5151
Shelton Instrument Co. Ltd.	1470	1 ea. Pump, all glass, 50cc/motor 220V, 50 cycles, (10-507)	\$ 227.76		
Plaster Scientific Co., Ltd.	1476	1 ea. Filters, pressure 10 liter capacity each with 1 gross filter glass. (10-507)	\$ 213.13		Plaster Scientific Dec. 6, 1947 1/1 1208
Geopline Lab. Supplies Ltd.	1477	1 ea. Counters, James Calvery Series, 100 scale (10-507)	\$ 41.24		Counters 10-1115 Nov. 1, 1947

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

CONTRACTOR	SERIAL NUMBER	QUANTITY	UNIT PRICE	TOTAL VALUE	DATE	REMARKS
Plath Scientific Co., Ltd.	1476	6 ea.	6.30	37.80	10/15/57	Plath Scientific Co., Ltd. 10/15/57
Comstock Lab. Supplies, Ltd.	1477	6 ea.	6.00	36.00	10/15/57	Comstock Lab. Supplies, Ltd. 10/15/57
Cave and Co. Ltd.	1478	6 ea.	6.00	36.00	10/15/57	Cave and Co. Ltd. 10/15/57
Plath Scientific Co. Ltd.	1479	1 ea.	18.00	18.00	10/15/57	Plath Scientific Co. Ltd. 10/15/57
Robert Perry - Co. Ltd.	1487	5,107 gals.	1.10	5,617.70	10/15/57	Robert Perry - Co. Ltd. 10/15/57

1,802 3/4 gals. Services Nov. 14, 1957 3/2 1958

1,100 1/2 gals. Services Nov. 14, 1957 3/2 1958

REVISIONS TO PARTS LIST - REVISIONS TO PARTS LIST FOR 7-10-54

CONTRACT	Serial Quantity	DESCRIPTION	MATERIAL	Part No. Drawing	ALL UNIT
Gumples Corp. (Overhaul)	4 each	Female clutches #70	(DWS 77 Pt. 6)	812.00	
	12 each	Flange coupling #75		3.46	
	2 each	Bearing washers #79		.46	
	12 each	Ball bearings #81		2880	
	12 doz.	Bearing oil filters #72		.30	
	4 each	Male clutch #71		7.20	
	12 doz.	Spindles, chrome plated #74		119.20	
	4 each	Spindle - chrome #74		3.80	
	1 each	Idler Assembly complete		33.00	
	6 each	Idler Ball bearings #83		14.46	
	12 each	Belt, chart #77		36.00	

See
Proceeding
Page

Infal General Electric Co. H.M. 8757	16 each	24 radial lamp, 0-1518, 2P, (790 779 Pt 7) 15 watt.	52.92	Not yet delivered
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CONTRACT	Serial Quantity	DESCRIPTION	MATERIAL	Part No. Drawing	ALL UNIT
Infal General Electric Co. H.M. 8757	1 each	Taylor Fullscope Recording Temperature controller, least case, case notched before on order, 24 hour spring wound clock, reverse action, adjustable sensitivity, 1/2" chart, 0-4000, Range 0 - 1200, over range protection, each tube system 20 ft. mercury actuated capillary, 1/8" stainless steel bulb with rigid stainless steel stem of 1/8" stainless steel 3/4" long including bulb, 1/8" stainless steel contact including 3/4" tapered hub nut, for full immersion 7/8" chart, ink, -60., with a 1 accessories, complete. (DWS 779 Pt 4)	688.18		
	1 each	1218223 Same as item 1, except each tube system 10' and 1/8" stainless steel bulb with rigid extension stem of 1/8" stainless steel, 2 1/4" including bulb (DWS 779 Pt. 6)	678.90		

See
24, 1947
1/2 120)

SHIPMENT OF MATERIALS TO BE USED IN THE CONSTRUCTION OF PARTS LIST FOR WEAPONS 1A

CONTRACTOR	Serial Quantity or P. Order	MATERIAL	Part or Value	SHIPMENT
Fisher & Porter Company Mil. 6741	2 each	Master Enclosed Flowmeters to have the following specifications: MATERIAL Label: Figure # 7M, Meter Size 1 1/2, Connection size 1/2, Connection Type A Rating, Flanged Flat face, Material of Fitting, Bronze, Float Guide, Patent "Seed Guide" tube with 3 raised glass ribs to center end to guide the float, Packing, Non-prussic, Connections to Face, Inlet-left, Outlet-right, unless otherwise specified, Panel Mounting Fittings, Bone, Metering Tube, 30425, hooded, 1/8" scale, Type of scale 2 units, Direct reading, Float specifications, 30-60 of stainless steel, Fluid, Air, Color & Transparency, Transparent, Specific Gravity, 1.0, Operating Pressure, Atmospheric, Operating Temperature, 70°F. Flow RANGE, Maximum Flow, 20 CFM, Minimum Flow, 20CFM. To include outline drawings and pressure correction curves. (DFC 775 Pt. 4)	1643.00	
	3 each	Master Enclosed Flowmeters to have the following specifications: MATERIAL Label: Figure # 7M, Meter size, 2, Connection size, 1/4", Connection Type A Rating, covered, Material of Fitting, Brass; Float Guide, Patent "Seed Guide" tube with 3 raised glass ribs to center end to guide the float; Packing Non-prussic; Connections to Face: Inlet-left, outlet-right, unless otherwise specified; Panel Mounting Fittings, Bone, Metering Tube, 30425, hooded, 1/8" scale; Type of scale 2 units, Direct reading, Float specifications- 30-60 of stainless steel. Fluid, Air, Color & Transparency, Transparent, Specific Gravity, 1.0; Operating Pressure, Atmospheric, Operating Temperature, 70°F. Flow RANGE, Maximum Flow, 20CFM, Minimum flow 1.4 CFM. To include outline drawings and pressure correction curves. (DFC 775 Pt. 4)	146.80	Budget Airrow Oct 23, 1947 A. J. LISA
Knoxon - Edison Regulator Company Mil. 6738	2 each	2" 3/16 Back Pressure Regulators, cast iron body, Flanged ends 7/8 1/2" x 2 1/2" Standard 3/4" 1/2" stainless steel tria. Grease sealed Lubricator, 1/2" Brass 1/2" cone, Adjustable range 1-2 PSI, Controlling Air 0-25 CFM. (DFC 775 Pt. 3)		
	3 each	1 1/2" 3/16 Back Pressure Regulators, Cast Iron Body, covered ends, 3/4" 1 1/2" stainless steel tria, Grease sealed Lubricator, 1/2" Brass 1/2" Cone, Adjustable range 2-7 PSI Valve open above 1 PSI, Controlling Air 0-25 CFM. (DFC 775 Pt. 3)	442.0	Budget Dec 23, 1947 A. J. LISA

STATEMENTS OF WORK FOR THE ...

CONTRACTOR	Quantity	Material	Notes
	12	1 1/2" Std. Galv. Pipe	
	12	1"	
	30	1/2"	
	30	1"	
	36	1 1/4"	
	6	1 1/2" x 1/2" Std. Galv. Pipe	
	180	1 1/2" Std. Galv. Pipe	
	50	1"	
	50	1/2"	
	100	1"	
	150	1/2"	
	30	1/4"	
	50	1/2" Std. Galv. Pipe	
	30	1/4"	
	24	1"	
	36	1 1/2"	
	12	1 1/2" x 1/2" Std. Galv. Pipe	
	1	1 1/4"	
	1	1 1/2" x 1/2" Std. Galv. Pipe	
	2	1 1/2" Std. Galv. Pipe	
	1	6"	
	2	5 x 3" Std. Galv. Pipe	
	2	8 x 4" Std. Galv. Pipe	
	1	12" Std. Galv. Pipe	
	3	1 1/2" Std. Galv. Pipe	
	2	1 1/2" Std. Galv. Pipe	
	52	1 1/2" Std. Galv. Pipe	
	19	6 x 11"	
	1	8 x 13 1/2"	
	6	4 x 7"	
	46	1 1/2" Std. Galv. Pipe	
	5	1"	
	24	1 1/4"	
	26	1"	
	28	1 1/2"	
	3	4"	
	4	6"	
	7	8"	

Contractor: ...

all iron gate valves 7 1/2" air under water tested

QUANTITIES OF MATERIALS TO BE SUPPLIED BY CONTRACTOR FOR THE PROJECT

CONTRACTOR	Quantity	Material	Notes
	12	1 1/2" Std. Galv. Pipe	
	12	1 1/2" Std. Galv. Pipe	
	36	3/4" Std. Galv. Pipe	
	36	1 1/8" Std. Galv. Pipe	
	6	1 1/4" x 1/4" Std. Galv. Pipe	
	150	1 1/2" Std. Galv. Pipe	
	30	1 1/2" Std. Galv. Pipe	
	100	1 1/2" Std. Galv. Pipe	
	150	1 1/2" Std. Galv. Pipe	
	30	1 1/2" Std. Galv. Pipe	
	30	1 1/2" Std. Galv. Pipe	
	24	1 1/2" Std. Galv. Pipe	
	36	1 1/2" Std. Galv. Pipe	
	12	1 1/2" x 1/4" Std. Galv. Pipe	
	1	1 1/2" x 1/4" Std. Galv. Pipe	
	1	1 1/2" x 1/4" Std. Galv. Pipe	
	2	1 1/2" x 1/4" Std. Galv. Pipe	
	1	1 1/2" x 1/4" Std. Galv. Pipe	
	2	1 1/2" x 1/4" Std. Galv. Pipe	
	1	1 1/2" x 1/4" Std. Galv. Pipe	
	1	1 1/2" x 1/4" Std. Galv. Pipe	
	3	1 1/2" x 1/4" Std. Galv. Pipe	
	2	1 1/2" x 1/4" Std. Galv. Pipe	
	2	1 1/2" x 1/4" Std. Galv. Pipe	
	2	1 1/2" x 1/4" Std. Galv. Pipe	
	19	1 1/2" x 1/4" Std. Galv. Pipe	
	1	1 1/2" x 1/4" Std. Galv. Pipe	
	6	1 1/2" x 1/4" Std. Galv. Pipe	
	45	1 1/2" x 1/4" Std. Galv. Pipe	
	5	1 1/2" x 1/4" Std. Galv. Pipe	
	24	1 1/2" x 1/4" Std. Galv. Pipe	
	26	1 1/2" x 1/4" Std. Galv. Pipe	
	20	1 1/2" x 1/4" Std. Galv. Pipe	
	3	1 1/2" x 1/4" Std. Galv. Pipe	
	4	1 1/2" x 1/4" Std. Galv. Pipe	
	7	1 1/2" x 1/4" Std. Galv. Pipe	

Qualification: 2012 (2012)
 (Cert. Licensed)

1 1/2" all iron gate valves / 2000 psi under water tested

REPLACEMENT REPORT
 SUPPLIES OF FIVE AIR FITTINGS FOR FERRICITE BURNING TO STEEL MILL

QUANTITY	ITEM	MATERIAL	DATE	REMARKS
11	1" A177 all iron gate valves 7 & 8 PD air under water tested		March 2, 1948	
46	3 1/2" O.D. style 7" hexagonal		March 2, 1948	
4	2" A177		March 2, 1948	
25	1" A177		March 2, 1948	
49	1" A177		March 2, 1948	
100	1" A177		March 2, 1948	
25	1" A177		March 2, 1948	
49	1" A177		March 2, 1948	

March 2, 1948

1" A177 all iron gate valves 7 & 8 PD air under water tested
 3 1/2" O.D. style 7" hexagonal
 2" A177
 1" A177
 1" A177
 1" A177
 1" A177
 1" A177
 1" A177

March 2, 1948

REPORT OF PIPELINES

CONTRACTOR	Item	Quantity	Material
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The following piping was shipped on the Black Hills contract, 3/1 1201, January 8, 1948. Total value \$448.41

1	21077.	1/4" black pipe, threaded and coupled
2	115 ft.	1/2"
3	252 ft.	1/4"
4	168 ft.	1/4" galvanized pipe threaded and coupled
5	459 ft.	1" galvanized pipe, threaded and coupled
6	105 ft.	1 1/4" black pipe threaded and coupled
7	126 ft.	1 1/4" galvanized pipe, threaded and coupled
8	69 ft.	4" black pipe, plain ends threaded and coupled
9	93 ft.	6" x 25 lbs. 8 was pipe, plain ends
10	20 ft.	12" x 50 lbs.

The following piping was shipped on the Black Hills contract, 3/1 1214, February 14, 1948. Total value \$1,553.83

1	147 ft.	1/4" black, threaded and coupled
2	210 ft.	1/2"
3	775 ft.	1" stainless steel no. 304 pipe, seamless
4	111 ft.	2" stainless steel no. 304 pipe, see lines
5	105 ft.	3" black pipe, plain ends
6	69 ft.	4" black pipe, plain ends
7	68 ft.	6"

The following piping was shipped on the Black Hills contract, 3/1 1216, February 14, 1948. Total value \$322.46

1	147 ft.	1/4" black, pipe, threaded and coupled
2	210 ft.	1/2"
3	210 ft.	1" galvanized pipe threaded and coupled
4	66 ft.	2" black pipe, plain ends
5	51 ft.	4"

REQUISITIONARY STATEMENT
SHIPMENTS OF PIPES AND FITTINGS TO THE 100th AIRBORNE REPARATION CENTER, STRATONBURGH

DESCRIPTION	ITEM #	QUANTITY	UNIT
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The following piping is in stock to be used in the first available vessel, total value \$132.46

3	236 ft.	1" galv. pipe, threaded and capped
6	230 ft.	1" galv. pipe, threaded and capped
10	105 ft.	2" galv. pipe, threaded and capped
13	113 ft.	2" black pipe, half ends

The following items were delivered by January 27th, 1948 and will be shipped as soon as possible. This will complete the last and final shipment of piping for the additional plant, total value \$68.35.

6	230 ft.	1" galv. pipe, threaded and capped
10	210 ft.	2" galv. pipe, threaded and capped
14	83 ft.	2" black pipe, plain ends
15	67 ft.	2" x 20 lbs. black pipe plain ends

Controlled

Page 1

Item No.	Description	Quantity	Unit Price	Total Price	Remarks
1	1201 Cassette Incomplete Band Class ES Full Year 2 purchased on air equipment's complete with-replacement (Price inclusive) Filter, Air Filter Sensors, Inkjet Software, Air, Ink, 1-1 Air Coolers, 20 lbs., also spray valves Pencils, 6, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100 127 Cassette Incomplete Class 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 Inkjet, 20 lbs., 30/25, 1 phase, 5 cycle Inkjet, 20 lbs., 30/25, 1 phase, 5 cycle Inkjet, 20 lbs., 30/25, 1 phase, 5 cycle	1	\$6,928.65	\$6,928.65	See also app 10-7
2	15 1/2" x 10" x 5" cycles, 100 lbs., 100 lbs., 100 lbs. with Inkjet, purchased type R.S. (Inkjet) each includes parts with manual starting to use air for starting current and 10 only base for more complete with starters.	2	\$ 200.00	\$ 400.00	
3	Starter, 1/2 or 1 R.F. 30/25, 1 phase, 5 cycle 2 1/2" cycle.	1	\$ 122.00	\$ 122.00	See page 1/1 of app 12/17
4	1/4 LB of a special material (not sure) stamped filter with air type from Inletter. 1/4 lb. air, 1/4 lb. from Inletter, 1/4 lb. air. 1 phase, 10 cycle, 20/30 valve, 100 lbs stamped Inletter (not sure) 1/4 lb. air, together with same starting action using Inkjet starter, 1/4 lb. air.	1	\$ 15.77	\$ 15.77	See page 1/1 of app 5/17

MINISTRY OF INDUSTRY, DEPARTMENT OF TRADE
C.A.A. Reference: 44

Reference	Quantity	Unit	Remarks
41-318	7	kg	Reference: 44, Page 573. All items mentioned in this and other documents through C.A.A. should be sold including in domestic supply & transport. 3 kg. 3 items, 20 kg. 30/70 with 150 kg. 5/8 kg. standard weight. Reference: 44, Page 573. All items mentioned in this and other documents through C.A.A. should be sold including in domestic supply & transport. 3 kg. 3 items, 20 kg. 30/70 with 150 kg. 5/8 kg. standard weight.

Reference: 44, Page 573. All items mentioned in this and other documents through C.A.A. should be sold including in domestic supply & transport. 3 kg. 3 items, 20 kg. 30/70 with 150 kg. 5/8 kg. standard weight.

Reference: 44, Page 573. All items mentioned in this and other documents through C.A.A. should be sold including in domestic supply & transport. 3 kg. 3 items, 20 kg. 30/70 with 150 kg. 5/8 kg. standard weight.

U.S.S.R. 10/19/50-51

Item No.	Description	Quantity	Unit	Value	Remarks
2	Herbicide, Impellers, components for application without motor. (No 1007)			\$1,007.60	
1	Sample plus penicillin & crystal form 1007	1			Forward copy to laboratory
1	Sample plus penicillin & crystal form 1007 (non-standard)	1			Forward copy to laboratory
1	Sample standard chloroform extract 1007	1			
1	Sample penicillin soluble 1007-228	1			
1	Sample penicillin extract 1007-228	1			
1	Sample penicillin acetone 1007	1			
1	Sample penicillin form 1007	1			
1	Sample form 1007	1			
1	Sample 1007 in cell	1			
1	Sample culture 1007	1			
1	Sample culture 1007	1			
1	60% ch. by 1007-10 long storage bottle added specimen of each of 1007 added above in shell in flask, with 1007 liquid sample from 1007 extract added and 1007 in each bottle. Packed in three units of each bottle only. All units to be stamped for shipping.	1		\$670.00	
1	Sample 1007	1			Forward copy to laboratory
1	Sample 1007	1			Forward copy to laboratory

1007-1007
1007-1007
1007-1007

STATE OF CALIFORNIA
 DEPARTMENT OF REVENUE
 TAXPAYER'S SERVICE CENTER
 S.F. 4300 CALIFORNIA ST., S.F. 94134

INVOICE NO.	QUANTITY	UNIT PRICE	TOTAL	DATE	REMARKS	APPROVED BY	DATE
41-3758 72-2	100	1.00	\$100.00	5/27/57	100 Taylor Range Thermometers Chart No. 3758, size 6-10, 10' lead 12-4 1/2 inch diameter holding also length 20' with one 20' air filter and one air retarding valve 20' and Taylor Range Test Van Action Air-charger valve.	John S. W.	5/27/57
41-3759	2	525.00	\$1,050.00	5/27/57	2 Single Van Taylor Range Thermometers Chart No. 3759, size 6-10, 10' lead 12-4 1/2 inch diameter holding also length 20' with one 20' air filter and one air retarding valve 20' and Taylor Range Test Van Action Air-charger valve.	John S. W.	5/27/57
41-3760	1	1,000.00	\$1,000.00	5/27/57	1 Single Van Taylor Range Thermometers Chart No. 3760, size 6-10, 10' lead 12-4 1/2 inch diameter holding also length 20' with one 20' air filter and one air retarding valve 20' and Taylor Range Test Van Action Air-charger valve.	John S. W.	5/27/57
41-3761	1	500.00	\$500.00	5/27/57	1 Taylor Range Thermometers Chart No. 3761, size 6-10, 10' lead 12-4 1/2 inch diameter holding also length 20' with one 20' air filter and one air retarding valve 20' and Taylor Range Test Van Action Air-charger valve.	John S. W.	5/27/57
41-3762	1	500.00	\$500.00	5/27/57	1 Taylor Range Thermometers Chart No. 3762, size 6-10, 10' lead 12-4 1/2 inch diameter holding also length 20' with one 20' air filter and one air retarding valve 20' and Taylor Range Test Van Action Air-charger valve.	John S. W.	5/27/57
41-3763	1	1,000.00	\$1,000.00	5/27/57	1 Taylor Range Thermometers Chart No. 3763, size 6-10, 10' lead 12-4 1/2 inch diameter holding also length 20' with one 20' air filter and one air retarding valve 20' and Taylor Range Test Van Action Air-charger valve.	John S. W.	5/27/57
41-3764	1	500.00	\$500.00	5/27/57	1 Taylor Range Thermometers Chart No. 3764, size 6-10, 10' lead 12-4 1/2 inch diameter holding also length 20' with one 20' air filter and one air retarding valve 20' and Taylor Range Test Van Action Air-charger valve.	John S. W.	5/27/57
41-3765	1	500.00	\$500.00	5/27/57	1 Taylor Range Thermometers Chart No. 3765, size 6-10, 10' lead 12-4 1/2 inch diameter holding also length 20' with one 20' air filter and one air retarding valve 20' and Taylor Range Test Van Action Air-charger valve.	John S. W.	5/27/57
41-3766	1	500.00	\$500.00	5/27/57	1 Taylor Range Thermometers Chart No. 3766, size 6-10, 10' lead 12-4 1/2 inch diameter holding also length 20' with one 20' air filter and one air retarding valve 20' and Taylor Range Test Van Action Air-charger valve.	John S. W.	5/27/57
41-3767	1	500.00	\$500.00	5/27/57	1 Taylor Range Thermometers Chart No. 3767, size 6-10, 10' lead 12-4 1/2 inch diameter holding also length 20' with one 20' air filter and one air retarding valve 20' and Taylor Range Test Van Action Air-charger valve.	John S. W.	5/27/57
41-3768	1	500.00	\$500.00	5/27/57	1 Taylor Range Thermometers Chart No. 3768, size 6-10, 10' lead 12-4 1/2 inch diameter holding also length 20' with one 20' air filter and one air retarding valve 20' and Taylor Range Test Van Action Air-charger valve.	John S. W.	5/27/57
41-3769	1	500.00	\$500.00	5/27/57	1 Taylor Range Thermometers Chart No. 3769, size 6-10, 10' lead 12-4 1/2 inch diameter holding also length 20' with one 20' air filter and one air retarding valve 20' and Taylor Range Test Van Action Air-charger valve.	John S. W.	5/27/57
41-3770	1	500.00	\$500.00	5/27/57	1 Taylor Range Thermometers Chart No. 3770, size 6-10, 10' lead 12-4 1/2 inch diameter holding also length 20' with one 20' air filter and one air retarding valve 20' and Taylor Range Test Van Action Air-charger valve.	John S. W.	5/27/57

Statement of Receipts, August 1950
U.S.A. 1-1-1950-10

Contract No.	Quantity	Value	Description	Remarks
AS-3008	10	28,553	2000 gal. tank, group 7, for 15 R.P. motor. 28,553 lbs and filling to fill on motor	Received 2/1/51 June 5/51
AS-3007	2	16,715	Two sets of 10 gal. complete 4th group and safety valve.	Received 2/1/51 June 5/51
AS-3007	1	5,712.27	Two, 750 R.A. collapondable steel with coil	Received 2/1/51 June 5/51
AS-3008	1	5,712.27	Two, 2000 gal. tank, 150 R.P. motor, 2000 gal. tank with 20 lbs. of steel tubing, with motor and 1/2" R.P. motor at ground motor on drive.	Received 2/1/51 June 5/51
AS-3008	3	79,076.61	Three, 20,000 R.P. gal. tank with motor and 1 R.P. motor on proof motor	Received 2/1/51 June 5/51
AS-3008	1	5,777.15	2000 gal. tank, 150 R.P. motor, 2000 gal. tank with 20 lbs. of steel tubing, with motor and 1/2" R.P. motor at ground motor on drive.	Received 2/1/51 June 5/51
AS-3008	2	16,715	Two, 2000 gal. tank, 150 R.P. motor, 2000 gal. tank with 20 lbs. of steel tubing, with motor and 1/2" R.P. motor at ground motor on drive.	Received 2/1/51 June 5/51
AS-3008	1	5,712.27	Two, 2000 gal. tank, 150 R.P. motor, 2000 gal. tank with 20 lbs. of steel tubing, with motor and 1/2" R.P. motor at ground motor on drive.	Received 2/1/51 June 5/51

Company Name	Contract No.	Quantity	Description	Unit Price	Total Value	Remarks
Richardson Agency, Ltd.	PA-1	10	Twelve 100 W. cellulos, glass lined, jacketed, insulated and steel mounted with rubber buffer and 1/4 W.P. explosion proof motor.	41,000.00	410,000.00	Inventory 3/17/57 March 27/57 June 5/57
Richardson Agency, Ltd.	PA-1	2	Two 1/2 W.P. gallon, glass lined	55,250.00	110,500.00	March 27/57 June 10/57
Billing City, Ltd.	AI-329 PA-2	1	Supply 16" Super Composites Paper Flight Model Provenite ball drive with explosion proof motor & connecting bolts, 1 clarifying bed, all SS	615,993.70	615,993.70	Inventory 3/17/57 June 5/57
		1	Supply laboratory Model Composites drive SS beds, 1 clarifying, 1 evaporating.			
Fluor & Parker Company	PA-205	1	Two 1000 Acetic Acid Phosphate Salt Inhibitors for tubes	1457.30	1457.30	Inventory 3/17/57 June 26/56
J. Coyte, J. Lewis & Co. Wilmington, N.C. Export Co., Inc.	AI-328 PA-2	5	Special No. 1A Service Program Quantity before each shipment to have 5 or 6 children	34,586.00	172,930.00	Inventory 3/17/57 June 5/57
Canadian Laboratory Supply	AI-300	1	International drive 2 all system centrifuge with 207 A motor head	142,100.00	142,100.00	Inventory 3/17/57 June 5/57
Canadian Laboratory Supply	AI-320	2	Model No. 31 90-10 Super-Intensible Pipetting Machine	140.87	281.74	Inventory 3/17/57 June 24/56

Item No.	Description	Value	Quantity	Unit	Remarks
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... 1977 5 ... 1406.00 ... Baltimore Beach ...

... 1977 5 ... 12,356.00 ...

... 1977 5 ... 16,116. ...

... refrigerating unit, will require, variable, ...

... 50 hp 60 cycle electric motor, air cooled ...

... 100 hp 60 cycle electric motor, air cooled ...

... 250/300 volt, 2 pole electric ...

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Company Name	Address	Assets	Liabilities	Equity	Notes
The West Co., Phila. Pa.	200 27th St. Phila. Pa.	1,000,000	500,000	500,000	100% owned by... July 27
The West Co. Philadelphia, Pa. (Distribution Agency)	200 27th St. Phila. Pa.	1,000,000	500,000	500,000	100% owned by... July 27
Atlantic Co. of Virginia	200 27th St. Phila. Pa.	1,100,000	500,000	600,000	100% owned by... July 27
Atlantic Glass Co.	200 27th St. Phila. Pa.	1,100,000	500,000	600,000	100% owned by... July 27
Atlantic Glass Co.	200 27th St. Phila. Pa.	1,100,000	500,000	600,000	100% owned by... July 27

Y. X. Stone Co.
The West Co., Dallas
The West Co., Dallas
(Aluminum)
Aluminum Co. of America
The West Co., Dallas
The West Co., Dallas
The West Co., Dallas

Company Name	Address	Product	Quantity	Value	Notes
General Electric	100 W. Adams (1-151/700 - 200 2b)	Electricity	100 units	\$100,000	March 10/47
General Electric	100 W. Adams (1-151/700 - 200 2b)	Electricity	100 units	\$100,000	March 10/47
General Electric	100 W. Adams (1-151/700 - 200 2b)	Electricity	100 units	\$100,000	March 10/47
General Electric	100 W. Adams (1-151/700 - 200 2b)	Electricity	100 units	\$100,000	March 10/47
General Electric	100 W. Adams (1-151/700 - 200 2b)	Electricity	100 units	\$100,000	March 10/47
General Electric	100 W. Adams (1-151/700 - 200 2b)	Electricity	100 units	\$100,000	March 10/47
General Electric	100 W. Adams (1-151/700 - 200 2b)	Electricity	100 units	\$100,000	March 10/47
General Electric	100 W. Adams (1-151/700 - 200 2b)	Electricity	100 units	\$100,000	March 10/47
General Electric	100 W. Adams (1-151/700 - 200 2b)	Electricity	100 units	\$100,000	March 10/47
General Electric	100 W. Adams (1-151/700 - 200 2b)	Electricity	100 units	\$100,000	March 10/47

Company Name	Product	Quantity	Unit Price	Total Value	Invoice No.	Date
W. E. Baker Chem. Co.	Sodium Hydroxide C. P. reagent, white	300 lbs.	\$75.00	\$22,500	15-1070	July 17/47
Robert Henry & Co. Ltd.	Sodium Hydroxide, technical, flakes, 100% min. (98-99)	15,000	\$1.06	\$15,900		March 27/47
W. E. Baker Chem. Co.	Acid Sulphuric C. P. concentrated, 6.7	9 lbs.	\$1.40	\$12.60	15-1072	April 27/47
W. E. Baker Chem. Co.	Choline I. - Synth. 97-98	2400 gms	\$75.00	\$180.00	15-1071	June 11/47
W. E. Baker Chem. Co.	Triethylamine	24 lbs.	\$7.00	\$168.00		June 11/47
W. E. Baker Chem. Co.	Formic Acid (87% min conc) 100% min	10 kilos	\$42.00	\$420.00	15-1071	June 11/47
W. E. Baker Chem. Co.	Formic Acid (87% min conc) 100% min	24 lbs.	\$6.00	\$144.00	15-1071	June 11/47
W. E. Baker Chem. Co.	Acetic Acid (98% min conc) 100% min	24 lbs.	\$6.00	\$144.00	15-1071	June 11/47
W. E. Baker Chem. Co.	Formic Acid (87% min conc) 100% min	1 (1/8 lbs.)	\$4.50	\$4.50	15-1071	June 11/47

J. S. ...
Robert ...
P. R. ...
B. L. ...
Wilson ...
Ingram & Bell
Wilson ...
Wilson ...
Wilson ...

Supplier	Part No.	Quantity	Description	Unit Price	Total Price	Remarks
Ray	2 Long bars	...	\$74.00	\$148.00	...
V. T. ...	78-1069	700 lbs.	...	\$27.90	\$19,563.00	...
V. T. ...	78-1070	1,260 lbs.	...	\$22.80	\$28,728.00	...
...	217	700 lbs.	...	\$1,275.00	\$892,500.00	...
...	...	3,719 bars	...	\$2,804.98	\$10,438,000.00	...
Ingram & Bell, Inc.	80-517	5,000 lbs.	...	\$26.75	\$133,750.00	...
...	\$17.75	\$...	...
Ingram & Bell, Inc.	...	9 grams	...	\$2.17	\$19.53	...
Wilson Lab., Inc.	78-1071	50 lbs.	...	\$37.90	\$1,895.00	...
Ingram & Bell, Inc.	...	1,100 grams	...	\$3.71	\$4,082.00	...

Case

New Zealand Serv.
V. V. Pulina
J. T. ...
Carve & Co. Ltd.
Sugra & ...
Sugra & ...
Sugra & ...

Quantity	Description	Unit Price	Total	Remarks
22 lbs.	Coconut powder	\$15.50		
20 lbs.	Oil	7.00		
25 lbs.	Sodium hydroxide solution 50%	8.75		
2	1 quart air trap filter, O.S. Zinc	\$45.20		Cotton 2/16 2/16 2/16
5 gal	Smoking lubricating oil. Pure paraffin oil. Thicketly 100 - 125 SAE 100	\$2.50		Less Star 2/16 2/16 2/16
5 gal.	Plastic tubing (Vinylite) 1/2" 1/16 inch wall	\$15.00		March 21/67
2 min	Quartzite, Minnesota, 5" - 100% generally 100 G.P. (10-379)	\$75.78		Less Star 2/16 2/16 2/16
10	2004, Scorpion Super Gunflange (10-10-719)	\$120.00		March 21/67
2 sets	P.A. Miller's Lab. Model, same as above (10-10-308)	\$92.58		Less Star 2/16 2/16 2/16
6 each	Cotton plug, implements for 1/2" diameter 1/2" diameter 1/2" diameter 2 construction air filter 100-111 (10-111)	\$19.53		March 21/67
1	Water distribution apparatus, 1 to 5 G.P. (10-57)	\$27.28		Less Star 2/16 2/16 2/16

REQUIREMENTS OF THE CONTRACTOR TO BE FULFILLED BY THE
U.S.A. CONTRACTOR

Contract No.	Quantity	Description	Unit Price	Total Price	Remarks
1495	20 ea.	Plastic, transparent, 1/2" x 1/2" x 1/8" thickness	210.00	4200.00	Order 2/1/5 Rec. 2/1/5
1496	35 ea.	Plastic, transparent, 3/4" x 1/2" x 1/8" thickness	215.53	7543.55	Order 2/1/5 Rec. 2/1/5
1497	1	Paper, all types, 100 sheets, 1 lb. weight, 8 1/2" x 11" (40-397)	222.76	222.76	Order 2/1/5 Rec. 2/1/5
1498	1	Paper, all types, 100 sheets, 1 lb. weight, 8 1/2" x 11" (40-397)	222.76	222.76	Order 2/1/5 Rec. 2/1/5
1499	1	Plastic, transparent, 1/2" x 1/2" x 1/8" thickness	725.33	725.33	Order 2/1/5 Rec. 2/1/5
1500	1	Plastic, transparent, 1/2" x 1/2" x 1/8" thickness	64.29	64.29	Order 2/1/5 Rec. 2/1/5
1501	1	Plastic, transparent, 1/2" x 1/2" x 1/8" thickness	66.00	66.00	Order 2/1/5 Rec. 2/1/5
1502	30 ea.	Plastic, rubber, heavy, all types, 1/2" x 1/2" x 1/8" thickness	200.28	6008.40	Order 2/1/5 Rec. 2/1/5
1503	6 ea.	Paper, all types, 100 sheets, 1 lb. weight, 8 1/2" x 11" (40-397)	166.53	999.18	Order 2/1/5 Rec. 2/1/5
1504	6 ea.	Paper, all types, 100 sheets, 1 lb. weight, 8 1/2" x 11" (40-397)	179.71	1078.26	Order 2/1/5 Rec. 2/1/5

STATE DEPARTMENT OF INVESTIGATION
U.S.A. 2-175/00-00

Case No.	Description	Date	Status
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STATEMENT OF FINANCIAL EXPENDITURE TO CONTRACTORS

C.A.S. 2-179/70-305

Quantity Ordered	Part No.	Description	Unit Price	Total Price	Remarks	Invoice No.
1	AI-3720	1/2" 115000 Ingersoll Rand Class 20 1	\$4,922.65	\$4,922.65	1/2" 115000 Ingersoll Rand Class 20 1 in Class 2 constructed in dry atmosphere complete with accessories (air line indicators, filter, air valve) (Class two items not included in original shipment numbers, include) on schedule has been shipped later on the 15-17-67 2/25 10/ 1/67	INVOICE 2/25/67
1		1/2" 115000 Ingersoll Rand Class 20 1			1/2" 115000 Ingersoll Rand Class 20 1	
1		1/2" 115000 Ingersoll Rand Class 20 1			1/2" 115000 Ingersoll Rand Class 20 1	
1		1/2" 115000 Ingersoll Rand Class 20 1			1/2" 115000 Ingersoll Rand Class 20 1	
1		1/2" 115000 Ingersoll Rand Class 20 1			1/2" 115000 Ingersoll Rand Class 20 1	
1		1/2" 115000 Ingersoll Rand Class 20 1			1/2" 115000 Ingersoll Rand Class 20 1	
1		1/2" 115000 Ingersoll Rand Class 20 1			1/2" 115000 Ingersoll Rand Class 20 1	
1		1/2" 115000 Ingersoll Rand Class 20 1			1/2" 115000 Ingersoll Rand Class 20 1	
1		1/2" 115000 Ingersoll Rand Class 20 1			1/2" 115000 Ingersoll Rand Class 20 1	
2	AI-3721	15 R.P. 3 phase, 50 cycles, 1500 rpm, 300/200 (Phy. 04)			15 R.P. 3 phase, 50 cycles, 1500 rpm, 300/200 (Phy. 04) with 1/2" rise, protected type R.P. standard type induction motor with normal starting torque and low starting current and 10 only have capacitors complete with starters.	INVOICE 7/1/67
3	AI-3722	1/2" 115000 Ingersoll Rand Class 20 1	\$22.00	\$66.00	1/2" 115000 Ingersoll Rand Class 20 1	INVOICE 2/25/67
1	AI-3723	1/2" 115000 Ingersoll Rand Class 20 1	\$157.77	\$157.77	1/2" 115000 Ingersoll Rand Class 20 1	INVOICE 2/25/67

Part Number	Description	Quantity	Unit Price	Total Price	Remarks	Part Number
0-304	1. Dual Canadian Imperial 1/2" Dia. Class 20 1 2. Class 2 constructed in ally composition complete with accessories (action tank, rubber; Filter, air intake) These two items not included in original catalog numbers, include) on March 26/44 was substituted labor on this quantity of 1000 1/4" dia. 3/4" dia. 1974	1	\$4,500.00	\$4,500.00	2000000 2/19/44	
0-305	1. After bolters, 20 20-2, with rubber rollers bolter, 20 20-2, 3/4" dia, 3/4" dia bolters, starting. For above 20 20-2, rubber 1/2" dia. Imperial, Class 20 1, 1/2" dia, 3/4" dia bolters, 20 20-2, 3/4" dia, 3/4" dia starting starting compressors Truss, starting, for above rubber.	1				
0-306	2. 20 20-2, 3/4" dia, 3/4" dia, 3/4" dia, 3/4" dia roll 1/2" dia, protected type 20-2, rubber type insulation rubber with normal starting bolter had low starting current and 10 only been for rubber complete with starters.	2	\$22.00	\$44.00	2000000 2/19/44	
0-307	3. Bolter, 20 20-2, 3/4" dia, 3/4" dia, 3/4" dia 20 20-2	3	\$197.77	\$593.31	2000000 2/19/44	
0-308	4. 1/2" dia rubber rollers, 20 20-2, 3/4" dia, 3/4" dia and 1/2" dia rubber rollers, 20 20-2, 3/4" dia, 3/4" dia 1/2" dia, 3/4" dia, 3/4" dia, 3/4" dia, 3/4" dia, 3/4" dia, 3/4" dia rubber rollers, 20 20-2, 3/4" dia, 3/4" dia, 3/4" dia, 3/4" dia, 3/4" dia rubber rollers, 20 20-2, 3/4" dia, 3/4" dia, 3/4" dia, 3/4" dia, 3/4" dia, 3/4" dia rubber rollers, 20 20-2, 3/4" dia, 3/4" dia, 3/4" dia, 3/4" dia, 3/4" dia, 3/4" dia	1				

Page 2

Division of Technical Support to Communications

62-2, 2-7547-46

Case No.	Case Name	Case No.	Case Name	Case No.	Case Name
62-788	Bartholomew, Jr., Eugene	62-788	Bartholomew, Jr., Eugene	62-788	Bartholomew, Jr., Eugene
62-788	Bartholomew, Jr., Eugene	62-788	Bartholomew, Jr., Eugene	62-788	Bartholomew, Jr., Eugene
62-788	Bartholomew, Jr., Eugene	62-788	Bartholomew, Jr., Eugene	62-788	Bartholomew, Jr., Eugene
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62-788	Bartholomew, Jr., Eugene	62-788	Bartholomew, Jr., Eugene	62-788	Bartholomew, Jr., Eugene

STATUS OF RESEARCH REPORTS TO COMMISSIONERS

REPORT NO.	DATE	STATUS	REMARKS	DATE	STATUS
General Research Commission 78-5773 Comp.	2	2	78-5773-1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000	81,000.00	REPORT ON PROGRESS MAY 1976
Anti-Nuclear, WPA, Food & Drug	1	1	Sample was available & copied from 2000 Samples were available & copied from 2000 (Anti-Nuclear)		Report over to Institute
Anti-Nuclear, WPA, Food & Drug	1	1	Sample of material supplied from 2000 Samples available available to 2000-2000		Report over to Institute
Anti-Nuclear regional research lab.	1	1	Sample available 2000-2000 Sample available 2000-2000 Sample available 2000-2000 Sample 2000-2000		Report over to Institute
Anti-Nuclear Florida	1	1	Sample 2000-2000 in case Sample 2000-2000 Sample 2000-2000		Report over to Institute
Anti-Nuclear Lab.	1	1	60' dia. by 15'-0" tall storage tank which construction was of 1/2" steel plate in shell of 2000, with 20' but not available from 2000 outside and 20' in each tank. Related to the area of this research only, all efforts to be planned for shipping	8000.00	Report over to Institute MAY 1976
Research Commission Co. Lab.	1	1	20 gal. of covered tank with 2000 which is in working order	8000.00	Report over to Institute MAY 1976

Inventory of Technical Equipment of Intelligence
C.I.A. 2-27700-2

Quantity	Model	Manufacturer	Serial Number	Remarks	Value	Inventory
100	41-3700	41-3700	41-3700	Diagrams (Standard or copper connections) with individual components like test cables for building trials during training and testing.	1,500.00	41-3700 Qty 100 Inv. 1/1/56
2	41-3700	41-3700	41-3700	Diagrams for higher recording instruments about No. 41-3700, range 0-1000 Hz, band 10-100 Hz, frequency tabling stem length 20" with an 2.5cm dia filler and an air producing valve (3) and an higher stem with stem valve. Changeable valve.	1,500.00	41-3700 Qty 2 Inv. 1/1/56
1	41-3700	41-3700	41-3700	Diagrams for higher recording instruments about No. 41-3700, range 0-1000 Hz, band 10-100 Hz, frequency tabling, stem length 20", with an 2.5cm dia filler and an air producing valve (3) and an higher stem with stem valve. Changeable valve.	1,500.00	41-3700 Qty 1 Inv. 1/1/56
1	41-3700	41-3700	41-3700	Diagrams for steam conditioning of production trials, diameter 30", length 10".	1,500.00	41-3700 Qty 1 Inv. 1/1/56
1	41-3700	41-3700	41-3700	Diagrams for higher recording trials (Standard A Piping)	1,500.00	41-3700 Qty 1 Inv. 1/1/56
1	41-3700	41-3700	41-3700	Diagrams for higher recording trials (Standard B Piping)	1,500.00	41-3700 Qty 1 Inv. 1/1/56
1	41-3700	41-3700	41-3700	Diagrams for higher recording trials (Standard C Piping)	1,500.00	41-3700 Qty 1 Inv. 1/1/56

STATUS OF INVESTIGATION REPORT TO CONGRESS

DATE: 12/27/74

Case No.	Subject	Investigation Status	Comments	Date
44-3886
44-3887
44-3888
44-3889
44-3890
44-3891
44-3892
44-3893
44-3894
44-3895
44-3896
44-3897
44-3898
44-3899
44-3900

Subject 44-3899, ...
 possible link with ...
 connecting links, 1 ...
 possible ...
 in ...

PAGE 7

REVISIONS OF MATERIALS IMPROVED TO COMPLETION

D.D.A. 5-1778/24-55

CONTRACTOR	ITEM No.	Quantity	UNIT	REVISIONS	Value	DATE
International American, Ltd.	48-3787 P-1	3	Y	66467 vertical Primarizer glass-lined steel storage tanks provided with 2" of wet insulation on outside surface covered with a 3/16" insulate and supporting 1/2" x 3/4" crossbars and 1-1/2" supports. Insulation band endangers (flashed tanks should have no carbon steel on the shell side and be 37% type 304 stainless on the tank side. Insulation on top of tank is 2" thick. For cooling circulation of 3" diameter. Tanks are 30% capacity (24' dia x 18' high) 12' dia x 18' high. 24' dia shell and tank sides.	95,566.91	MILWAUKEE WI 5/6 Nov. 2/76
Wagner A. Gann Co.	48-3789 P-1	3	Y	20 feet, 1 1/2" x 1 1/2" aluminum, closed top 1-1/2" section and 1" diameter and provided by a 3" pipe, 20' dia, 2" dia electric motor, with design not complete. Tank will be to complete with two self-contained refrigerating units and each refrigerating unit to have liquid fuel evaporator, 3 1/2" x 3 phases, 20 volt, 50 or 60 cycle electric motor, air-cooled condenser. Motor type water circulating evaporator. Each storage compartment is to have two refrigerating units. The only change has appear. Dimensions 12' dia by 18' high, to be made up of steel tank. The refrigerating unit should be fully self contained and mounted in each compartment. Tank is to be possible to use them singly or in pairs. Tank is to be controlled from an integral control panel. Total capacity approx. 240 cubic ft. with spare parts. (in 1977)	985.00	ADDITIONAL PARTS 4/2 18-3 May 19/76
Wagner A. Gann Co., Inc.	48-3790 P-1	3	Y	Refrigerating unit, self-contained, integral, complete with spare evaporator, 3 1/2" x 20' dia, 50 or 60 cycle electric motor, air-cooled condenser. Motor type water circulating evaporator. 2 1/2" x 3 phases, 20 volt, 50 or 60 cycle electric motor, air-cooled condenser. Each storage compartment is to have two refrigerating units. The only change has appear. Dimensions 12' dia by 18' high, to be made up of steel tank. The refrigerating unit should be fully self contained and mounted in each compartment. Tank is to be possible to use them singly or in pairs. Tank is to be controlled from an integral control panel. Total capacity approx. 240 cubic ft. with spare parts. (in 1977)	1,760.91	ADDITIONAL PARTS 4/2 18-3 May 19/76
Wagner A. Gann Co., Inc.	48-3791 P-1	3	Y	Refrigerating unit, self-contained, integral, complete with spare evaporator, 3 1/2" x 20' dia, 50 or 60 cycle electric motor, air-cooled condenser. Motor type water circulating evaporator. 2 1/2" x 3 phases, 20 volt, 50 or 60 cycle electric motor, air-cooled condenser. Each storage compartment is to have two refrigerating units. The only change has appear. Dimensions 12' dia by 18' high, to be made up of steel tank. The refrigerating unit should be fully self contained and mounted in each compartment. Tank is to be possible to use them singly or in pairs. Tank is to be controlled from an integral control panel. Total capacity approx. 240 cubic ft. with spare parts. (in 1977)	1,760.91	ADDITIONAL PARTS 4/2 18-3 May 19/76

Inventory of materials reported to COMUSMACV

Organization	Serial No.	Quantity	Description	Unit	Value	Location	Remarks
F. J. Adams Co.	07-372	5	Various caps, metal		700.00		
The Seal Co., Philadelphia	07-373 PA 2704	1,000,000	Sealers, self rubber, to fill 20 oz penicillin bottles; 67 rubber sheet composition, penicillin; to be shipped to 17-19/70 (12-5)		8,775.00		Inventory value 3/1 00-09 Apr 19/67
The Seal Co., Philadelphia, Pa. (17 Jackson Avenue)	012	1	Machine, exp. exp., self-automatic with 1 h.p. 60 cycle, 130/200 volt. All other: heavy type typewriter de-cipher to exp & bring 20 oz size, triple seal aluminum cap of penicillin bottles, at the rate of 60 to 100 per minute. (00 30)				3/1 00 Dec. 2/67
		500,000	Single Seal Aluminum Caps		8,700.17		
		500,000	Triple Seal Aluminum Caps - not yet shipped 00-306				
Aluminum Co. of America	07-385 PA 2702	1,100,000 ea.	Sealers, quantity 20 oz size filling to 2-29 rubber stopper for penicillin bottles 3 plate composition stoppers, Aluminum Co. of America Co. 20-120. (00-19/70-12-5)		5,070.53		3/1 00/67 Apr. 24/67
Aluminum Co.	07-387 PA 2171	6,594 gross	Plat, glass, low-alloy, practical fill 20 oz fill to be used with 20 oz O.D. glass; height 2 1/2 in. of neck 1 1/2 in. to be exp type 1 glassware metal to 2-20. (00-19/70-12-5)		21,233.11		3/1 00 Apr 25/67
Products including Co.	07-388 PA 2-10	74,517 lb.	Seal water, available from Sara Products, including Co. 17, Battery Place, N.Y. (00-19/700 - 100-2, 100 tons)		1,251.03		3/1 00-09 Apr. 25/67
			if short tons		2,776.00		Completed
Ballistech Chem. Works	07-389 PA 2708	67 lb.	7-ounce dihydrogen phosphate (monobasic) available from Ballistech Chem. Works, 20, Lenox, Pa. (00-19/700 - 100-2)		265.70		3/1 00-09 Apr 11/67
Sealco Packaging Co.	07-387 PA 2087	117,867 lb.	Sealco (alk ester) commercial grade is 100 lb. drums (00-19/700-100-2)		13,977.8		3/1 00-09 Apr 12/67
270's Company	07-383	11,807 lb.	penicillin containing caps (00-3706)		4,360.77		3/1 00-09 Apr 19/67

Summary of production activities in connection with...

Contract No.	Quantity Produced	Contract Description	Contract Value	Contract Status
104-100	20 lbs.	Plant, 100, Ford (and others) - production equipment	\$1.10	Completed
104-101	20 lbs.	Plant, 100, Ford (and others) - production equipment	\$1.00	Completed
104-102	20 lbs.	Plant, 100, Ford (and others) - production equipment	\$1.00	Completed
104-103	20 lbs.	Plant, 100, Ford (and others) - production equipment	\$1.00	Completed
104-104	20 lbs.	Plant, 100, Ford (and others) - production equipment	\$1.00	Completed
104-105	20 lbs.	Plant, 100, Ford (and others) - production equipment	\$1.00	Completed
104-106	20 lbs.	Plant, 100, Ford (and others) - production equipment	\$1.00	Completed
104-107	20 lbs.	Plant, 100, Ford (and others) - production equipment	\$1.00	Completed
104-108	20 lbs.	Plant, 100, Ford (and others) - production equipment	\$1.00	Completed
104-109	20 lbs.	Plant, 100, Ford (and others) - production equipment	\$1.00	Completed
104-110	20 lbs.	Plant, 100, Ford (and others) - production equipment	\$1.00	Completed
104-111	20 lbs.	Plant, 100, Ford (and others) - production equipment	\$1.00	Completed
104-112	20 lbs.	Plant, 100, Ford (and others) - production equipment	\$1.00	Completed
104-113	20 lbs.	Plant, 100, Ford (and others) - production equipment	\$1.00	Completed
104-114	20 lbs.	Plant, 100, Ford (and others) - production equipment	\$1.00	Completed
104-115	20 lbs.	Plant, 100, Ford (and others) - production equipment	\$1.00	Completed
104-116	20 lbs.	Plant, 100, Ford (and others) - production equipment	\$1.00	Completed
104-117	20 lbs.	Plant, 100, Ford (and others) - production equipment	\$1.00	Completed
104-118	20 lbs.	Plant, 100, Ford (and others) - production equipment	\$1.00	Completed
104-119	20 lbs.	Plant, 100, Ford (and others) - production equipment	\$1.00	Completed
104-120	20 lbs.	Plant, 100, Ford (and others) - production equipment	\$1.00	Completed

Item No.	Description	Quantity	Unit	Value	Remarks
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Summary of Personnel Reported in Communications

Company	Ref	Personnel	Notes	Dates	Other
Radio Shack Co., Ltd.	146	1	Unknown, previous data indicating no other contacts (10-1976)	10-1976	10-1976
Canadian Int. Supplies Ltd.	147	1	Canadian, before entry comm. on cards (10-1976)	10-1976	10-1976
Pacific Electronics Co., Ltd.	148	30	Unknown, before comm. on cards (10-1976)	10-1976	10-1976
Canadian Int. Supplies, Ltd.	149	6	Unknown, before comm. on cards (10-1976)	10-1976	10-1976
Radio Shack Co., Ltd.	150	6	Unknown, before comm. on cards (10-1976)	10-1976	10-1976
Pacific Electronics Co., Ltd.	151	1	Unknown, before comm. on cards (10-1976)	10-1976	10-1976
Robert Barry & Co., Ltd.	152	5,125	1,200 calls per day (10-1976)	10-1976	10-1976
col Barry & Co., Ltd.	153	1,200	calls per day (10-1976)	10-1976	10-1976
Shannon Corporation	154	20	calls per day (10-1976)	10-1976	10-1976

7400 33

INVENTORY OF REMAINING EQUIPMENT TO COMMISSIONERS

A.S. 10/27/70-66

DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL	REMARKS
Sample Compression	1250-5793			
Female cap - stainless steel 40/3	1 each		26.00	
Female body - stainless steel 40/3	2 each		64.00	
Ball end nut 7/8"	10 each		2.00	
Lock washers 7/8"	2 each		16.00	
Bearing complete - type 3 7/8"	2 each		92.00	
Bearing complete - 1 1/2 bearing	2 each		18.00	
Drive shaft 1/4"	2 each		1.00	
Female clutch 7/8"	1 each		12.00	
Female coupling 7/8"	12 each		3.60	
Bearing washers 6/32"	2 each		.40	
Ball bearings 6/32"	12 each		24.00	
Bearing oil filters 7/8"	1 each		.70	
Male clutch 7/8"	1 each		7.30	
Studs, screws 1/4", 7/8" (part 779 P. 6)	12 each		115.20	
Spindle - screws 7/8"	1 each		1.00	
Idle Assembly complete	1 each		33.00	
Idle ball bearings 3/8"	6 each		18.00	
Ball, shaft 7/8"	12 each		36.00	

Subtotal General Electric Co. 436 677 40 each - 52.92 net per 40' total

For Instrument Co. 436-670 120073

1 each
1 each

Taylor Mill caps receiving temperature controller. Most are, free covered before assembly, in some spring steel stock; receive bottom of bushing assembly; 12" diam. of 1/8", range 0-1000, over range protect on, 2. Also take system 20 ft. array attached auxiliary; 10/8 stainless steel ball with right extension stem of 10/8 stainless steel 3/8" long including ball; 10/8 stainless steel connection including 3/8" thread nut and; for full instrument; 100 shafts, etc. with all accessories, complete. (part 779 P. 6) 498.10

120073 type 1000 1. array cap tube system 10/8 and 10/8 stainless steel ball with right extension stem of 10/8 stainless steel. 22 3/8" long including ball. (part 779 P. 6) 178.90

U.S. 3-17-79-05

Quantity	Description	Unit Price	Total Price	Remarks
1 each	1/2" x 1/2" x 1/2" nut	279.50		
3 each	1/2" x 1/2" x 1/2" nut	21.00		
3 each	1/2" x 1/2" x 1/2" nut	15.50		
3 each	1/2" x 1/2" x 1/2" nut	112.50		
2 each	1/2" x 1/2" x 1/2" nut	116.00		
1 each	1/2" x 1/2" x 1/2" nut	1,075.00		
2 each	1/2" x 1/2" x 1/2" nut	210.00		
2 each	1/2" x 1/2" x 1/2" nut	1,590.00		
3 each	1/2" x 1/2" x 1/2" nut	1,125.00		

[The main body of the document contains several columns of text that are almost entirely illegible due to extreme noise and heavy blacking out. The text appears to be organized into a structured format, possibly a table or a list of entries, but the individual characters and words are obscured.]

SECRET

TOP SECRET

1. The following information was obtained from a source who has provided reliable information in the past.
 2. The source has provided information that is of a confidential nature.
 3. The information is being provided to you for your information only.
 4. It is not to be disseminated outside your office.
 5. If you have any questions, please contact the source.
 6. The source is available for further information.
 7. The source is available for further information.
 8. The source is available for further information.
 9. The source is available for further information.
 10. The source is available for further information.

TOP SECRET

PROPERTY OF PERS AND PERSONS FOR WHOM THIS DOCUMENT IS PREPARED

ITEM	QUANTITY	UNIT	DESCRIPTION
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Local Supply Company The following piping was shipped on the SSALF 37 79 511 1/2 W 1 January 9, 1968, total value \$208.21.

1	208 ft.		1/2" black pipe, threaded end, capped
2	37 ft.		1/2" "
3	208 ft.		3/8" "
4	148 ft.		1/2" galv. pipe threaded end, capped
5	108 ft.		1" "
6	128 ft.		1 1/2" black pipe
7	128 ft.		1 1/2" galv. pipe, threaded end, capped
8	68 ft.		1/2" black pipe, plain ends
9	97 ft.		1 1/2" x 25 lbs. black pipe, plain ends
10	88 ft.		1 1/2" x 30 lbs. "

The following piping was shipped on the SSALF 37 79 511 1/2 W February 8, 1968. Total value \$1,440.67

1	197 ft.		1/2" black pipe, threaded end, capped
2	210 ft.		1" "
3	210 ft.		1" galv. pipe
4	148 ft.		1" stainless steel pipe, 1/2" pipe, condense
5	111 ft.		1" stainless steel 1/2" pipe, condense
6	109 ft.		1" black pipe, plain ends
7	67 ft.		1" "
8	68 ft.		1" "

The following piping was shipped on the SSALF 37 79 511 1/2 W February 8, 1968. Total value \$720.15

1	197 ft.		1/2" black pipe, threaded end, capped
2	210 ft.		1" "
3	210 ft.		1" galv. pipe, threaded end, capped
4	148 ft.		1" black pipe, plain ends
5	111 ft.		1" "
6	109 ft.		1" "

MEMORANDUM FOR THE DIRECTOR, FBI
SUBJECT: [Illegible]

DATE: 11/19/50

The following plates to be destroyed by [illegible] on [illegible] are as follows:
1. 200 P. 10 blank [illegible]
2. 210 P. 10 blank [illegible]
3. 105 P. 10 blank [illegible]
4. 1130 P. 10 blank [illegible]

The following plates are to be destroyed by [illegible] on [illegible] are as follows:
6. 210 P. 10 blank [illegible]
7. 210 P. 10 blank [illegible]
8. 210 P. 10 blank [illegible]
9. 210 P. 10 blank [illegible]

Date: 11/16/50
M/L [illegible]

Date: 11/16/50
M/L [illegible]

Date: 11/16/50
M/L [illegible]

STATEMENT OF PERTINENT EQUIPMENT ON BOARD
 OF
 C-47A-19-178700 154

DESCRIPTION	Serial No.	Quantity	UNIT PRICE	TOTAL PRICE	REMARKS
General Electric Co. Ltd.	AL-1000	1			1 ea. 1411 Canadian Powerall Rad Class HS 1-4E, Class 1 construction air compressors complete with accessories (price inclusive). 1 ea. Filter, Air Inlet) These two items not included in original shipment 1 ea. Suction, Intake) on Arter, but were shipped later on the Tripout 1 ea. Receiver, Air, 4" dia. R/L 90 - Rev. 14.1947 1 ea. After Cooler, 50 S.W. with Safety Valve 1 ea. Motor, 60 H.P., 360/220V, 3 Phase, 60 cycle 1 ea. Compressor, Starting, for above 60 H.P. motor \$2,500.00
	HS-1	1			1 ea. 1417 Canadian Powerall Class HS 1 pump and accessories (price inclusive). 1 ea. Motor, 30 H.P., 360/220V, 3 phase, 60 cycle including starting compressors. 1 ea. Pump, Starting, for above motor.
General Electric Co. Ltd.	AL-1001	2			10 H.P., 3 phase, 60 cycle, 1200 RPM, 220/240 V, 60° rise, protected type R-8. Rebuilt cage induction motor with manual starting button and low starting current and 10 only items for motor complete with starters. \$400.00
General Electric Co. Ltd.	AL-1002	2			2 ea. 1/4 or 1 H.P., 360/220V, 3 phase, 60 cycle \$100.00
General Electric Co. Ltd.	AL-1003	1			1 ea. 1/2 HP side suction centrifugal pump, standard fitted with open type iron impeller, ball bearing. Mount connected to 1/2 hp, 3 phase, 60 cycle, 360/220V, 1200 RPM standard impeller protected type motor, together with manual starting button having thermal overload protection. \$100.00

Arter
 June 14, 1947
 R/L 80

Arter
 R/L 80
 Sept. 9, 1947

Arter
 R/L 80
 May 6, 1947

Arter
 R/L 80
 June 14, 1947

INVENTORY OF MATERIALS EQUIPMENT TO POLAR
C.S.B. 8-1788/VC-008

Serial	Quantity	Part No.	Description	Value	Remarks
AL-0004	1	AL-0004	Particulate-free 1", Figure 988L, all iron centrifugal pump mounted on base and direct connected through flexible coupling to and including an Electric Super-Appliance Co. 1/2 hp. 3 phase. 80 cycle, 200/220V, 1500 RPM, 87% eff. standard protected type electric motor.		Order 8/7/48 June 16, 1947
AL-0004	1	AL-0004	Particulate-free 1", Figure 988L, all iron centrifugal pump mounted on base and direct connected through flexible coupling to and including an Electric Super-Appliance Co. 1/2 hp. 3 phase. 80 cycle, 200/220 V, 1500 RPM, 87% eff. standard protected type electric motor.	\$ 682.00	
AL-0004	1	AL-0004	Thermometer, Instrument Recording, (General Supply) 2 pan boards with left and right tube systems 20 (2) leads with a left right 20-000 scale and vacuum connection assembly. Range of instrument 0-200°F., with over-range protection 200-250°F. (20-000). Thermometer, Recording, 2 pan, chart form in above except for 20° leads & 20-0/0° scale).	\$ 682.00	Order 8/7/48 June 16, 1947
AL-0004	1	AL-0004	Thermometer, Recording, 2 pan, form in above except for 20° leads & 20-0/0° scale).	\$ 682.00	
AL-0004	1	AL-0004	Two 20" agitators having 1 1/2"-3" diameter, 8 stems, 80 cycles, 1000 RPM open protected motor chassis steel shaft, and motor for use in tank 40" dia. x 4 ft. deep.	\$ 1000.00	Order 8/7/48 May 15, 1947
AL-0004	1	AL-0004	Scale 10" x 10"	\$ 0.000-00	Order 8/7/48 May 6, 1947
AL-0004	1	AL-0004	Scale, 40" dia. x 8" x 80° plain steel complete with motor motor coupling and also coupling to 1000	\$ 1,000.00	Order 8/7/48 May 6, 1947
AL-0004	1	AL-0004	Two-Phase, Impeller, construction for agitation without motor. (80-100V)	\$ 1,000.00	Order 8/7/48 May 6, 1947
AL-0004	1	AL-0004	Sample pure penicillin 8 crystal form 100g (non-standard)		
AL-0004	1	AL-0004	Sample pure penicillin 8 crystal form 100g (non-standard)		

Order sent to Division

SCHEDULE OF MATERIALS PURCHASE BY POLARIS

DATE: 2-10-68

CONTRACT	Serial No.	Quantity Ordered	DESCRIPTION	UNIT PRICE	TOTAL PRICE	STATUS
Anti-Biotics, WMA, Food & Drug (cont'd)	1	1	Sample standard streptomycin sulfate POW			Packed Over 20 Dollars
	1	1	Sample Neelime Strains No. PC1-280			
	1	1	Sample penicillin G potassium 1000 UCC			
	1	1	Sample penicillin potassium 250			
	1	1	Sample Neelime Strains No. PC1-280			
Barbara Biological Research Lab.	1	1	Sample penicillin G potassium 1000 UCC			
	1	1	Sample penicillin potassium 250			
	1	1	Sample BBL 1012			
Richard Wagoner	1	1	Sample T-1012 in well			
	1	1	Sample culture 1			
	1	1	Sample culture 21%			
Purdell Miller Lab.	AI-3017	1 only	60" dia. by 18"-3" high storage tanks rolled construction made of 3/16" steel plate in sheets 12' thickness, with 1/2" bolted manhole door for accessibility and top 1/2" in each head. Painted two deep coats of paint outside only, all outside to be plugged for shipping.	\$ 270.00		
	AI-3028	1 only	20 gal. 20 covered tanks with Central Section & 60 cooling coil. This tank shipped without agitator.	\$ 480.00		
Statens Apparat Vabrik A.S., Ltd.	AI-3028	1 only	20 gal. 20 covered tanks with Central Section & 60 cooling coil. This tank shipped without agitator.	\$ 480.00		
	AI-3028	1 only	20 gal. 20 covered tanks with Central Section & 60 cooling coil. This tank shipped without agitator.	\$ 480.00		
AI-3028	100 only	100	Trays (Aluminum or Copper Construction) with individual compartments 11 1/2" dia. for drying plate during freezing and drying.	\$ 1,000.00		
	100 only	100	Trays (Aluminum or Copper Construction) with individual compartments 11 1/2" dia. for drying plate during freezing and drying.	\$ 1,000.00		

INVENTORY OF RESEARCH EQUIPMENT IN POLAND

C.I.A. REF ID: A61707-200

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Serial	Quantity	Material	Lot No.	Remarks
AI-0008	2 only	Single Two Taylor Recording Transmitters Chart No. 67 3000. Range 0-10000 Hz. Load 10-20 Ohms. Frequency range 100-1000 Hz. with one Triac Air Filter and one air reducing valve for and one Taylor Mass Steel Inven Action Diaphragm valve.		Read Chart M/L 17 Pub. Feb. 1957
AI-0009	4 only	Single Two Taylor Recording Transmitters Chart No. 67 3000. Range 0-10000 Hz. Load 10-20 Ohms. Frequency range 100-1000 Hz. with one Triac Air Filter and one air reducing valve for and one Taylor Mass Steel Inven Action Diaphragm valve.	0 L 000-00	
AI-0010	8 only	Anderson Budge 10' Load 10-20 Ohms. Frequency range 100-1000 Hz. with one Triac Air Filter and one air reducing valve for and one Taylor Mass Steel Inven Action Diaphragm valve.	0 L 001-00	Surrogate M/L 0 Inv. M. 1957
AI-0011	1 only	Canadian Ice Refrigerator Delta Refrigerator a Pigeon	0 001-00	Surrogate M/L 0 Inv. M. 1957
AI-0012	2 only	General Electric Co. of Canada 10' Load 10-20 Ohms. Frequency range 100-1000 Hz. with one Triac Air Filter and one air reducing valve for and one Taylor Mass Steel Inven Action Diaphragm valve.	0 002-00	Surrogate M/L 0 Inv. M. 1957
AI-0013	10	10' Drive, 10' Mill, 10' Jugs 10', for 10' Jug, 10' Mill and 10' Mill to fit as motor.	0 003-00	
AI-0014	2	General Electric Co. of Canada 10' Load 10-20 Ohms. Frequency range 100-1000 Hz. with one Triac Air Filter and one air reducing valve for and one Taylor Mass Steel Inven Action Diaphragm valve.	0 004-00	Surrogate M/L 0 Inv. M. 1957
AI-0015	1	General Electric Co. of Canada 10' Load 10-20 Ohms. Frequency range 100-1000 Hz. with one Triac Air Filter and one air reducing valve for and one Taylor Mass Steel Inven Action Diaphragm valve.	0 005-00	Surrogate M/L 0 Inv. M. 1957

LIST OF PERSONNEL ASSIGNED TO RELATED CASES. SUBJECTS

EMPLOYEE	DATE	QUANTITY	MATERIAL	PAID IN Value	REFERENCE
Richardson Agnew, Ltd.	10-10-68	1 only	Tanks, closed, 700 gal. 4" Dia. jacketed glass lined with 2" insulation and steel exterior with agitator and 3/4 hp. explosion proof motor on drive.	\$ 5,714.07	Booklet R/L 15 Feb. 26, 1967
	11-1-68	3 only	Tanks, 600 gal. each with agitator and 1 hp. explosion proof motor.	\$ 3,000.00	Article R/L 17 June 15, 1967
	12-1-68	1 unit	Distillation Unit, glass lined, feeders, consisting of 50 gal. glass lined bottle, 10" x 14" Nalco to reduce glass lined receiver. Pressure 20-25 psi. 200 lbs. Pict. equipment, Pictorial # 3485.	\$ 1,979.18	Book Chapter R/L 15 Feb. 26, 1967
	12-1-68	3 only	Tanks, 750 gal. each, glass lined, jacketed 24" Dia. 1/2" insulated, steel sheets with agitator and 1 hp. explosion proof motor.	\$ 4,100.00	Bookings R/L 17 May 6, 1967
	12-1-68	3 only	Tanks, buffer tank, 400 gal. 20" Dia. with agitator and 3/4 hp. explosion proof motor. Jacketed double of tank bottom and add baffles. Jacketed base valve.	\$ 6,200.07	Bookings R/L 15 May 6, 1967
	12-1-68	1 only	Tanks, 150 gal. glass lined, jacketed, insulated and steel sheeted with agitator, buffer and 3/4 hp. explosion proof motor.	\$ 1,000.00	Bookings R/L 17 May 6, 1967
	12-1-68	3 only	Tanks, 500 gal. glass lined	\$ 3,000.00	Articles R/L 15 Aug. 7, 1967
Whiting Corp., Ltd.	11-5-68	4	Shurpino 100 Series Centrifuge (10 Year Flight Model) Pressurizable ball drive with stainless steel motor & separating bowls. 1 clarifying bowl, all S.	\$ 4,000.00	Article R/L 15 June 15, 1967
		1 unit	Centrifuge Laboratory Model Centrifuge direct drive 80 bowls. 1 clarifying, 1 separating		Article R/L 15 June 15, 1967

Total value: \$ 25,000.00

STUCCO & CONCRETE REPAIRS TO POLAND
 C-12-1 SILVER/PC 20/77

Serial No.	Quantity Ordered	MATERIAL	7-15-50	7-15-50	7-15-50
Franklin and Parker Company	1 only 1 only 1 only 1 only	both cylinders Acetate Retainers Phosphoric Acid Retainers Retainers for water	4,000-00		March 9, 1957
W. J. J. Service Mfg. Co. Baltimore, B. E. Parker Co., Inc.	3 only	Special No. 1A Dviline Vacuum Chamber Drays, each Cabinet to have 5 or 6 shelves.	4,000-00		March 9, 1957
Franklin Laboratory Supply	1 only	International size 2 oil testing centrifuge with 207A silver head	800-10		March 9, 1957
	3 only	Model 40 MS 50-10 Brewer Automatic Pipetting Machine	200-00		March 9, 1957
F. J. J. Service Mfg. Co.	1 only	110 lb. steam pressure Kilned three-stage steam ejector for use in starting operations.	6,000-00		March 9, 1957
John Nettle Bros. Inc.	1 each 1 each 2 each 1 each 1 each 1 each 1 each 1 each 1 each	Pump set, consisting of: 1 each Acetate Pump 1 each Breath Pump 2 each Strong Acetate Transfer Pumps 1 each Special Acetate Transfer Pump 1 each Heat Tanks & Solvent Filling Pumps 1 each Chloroform Pump 1 each Spare Pump 1 each 25-70 "H. Head gear pump, 3/4 hp. upflow explosion proof, 20" dia. cast steel castings or equivalent			March 9, 1957
	1 each	Acid pump, 1/2 hp. pump, 10 gpm., 80" head, hard rubber 2/4 hp. explosion proof	5,000-00		March 9, 1957
	1 each	1/2 hp. explosion proof fillers all in accordance with process B-923 Exp. 1978 of March 9.	9,000-00		December 1, 1956

Serial	Quantity	Part No.	Material	Price	Remarks
Standard Electric, Ltd.					
AI-2008	3	AI-2008	36 x 48" vertical flexible glass-lined steel storage tank complete with 2" of cork insulation completely covered with a 3/16" hole and supporting legs. 2-3/4 openings and 1-3/4 opening.	1,355.57	Exchange M/L 21 May 26, 1947
AI-2008	1	AI-2008	Standard Sheet Fabricator 17" x 24" sheet 1790 on 24" x 24" standard 2000 series channel No. 457, type 316 stainless on the tube side and plain carbon steel on the shell side. Maximum 7" for both 2" diameter, for enclosed circulation 3" diameter. Tubes are 1790 304 stainless 66 x 4" or 30 gauge 1790 304 SS tube sheets 3/4" sheet fabricator structure 73 lbs. 1 sq. in. both shell and tube sides.	1,940.00	AI-2008 May 16, 1947
Standard Electric Co. Washington					
AI-2008	3	AI-2008	36 x 48" vertical flexible glass-lined steel storage tank complete with 2" of cork insulation completely covered with a 3/16" hole and supporting legs. 2-3/4 openings and 1-3/4 opening.	410.00	Exchange M/L 1 May 26, 1947
Standard Electric					
AI-2008	3	AI-2008	36 x 48" vertical flexible glass-lined steel storage tank complete with 2" of cork insulation completely covered with a 3/16" hole and supporting legs. 2-3/4 openings and 1-3/4 opening.	410.00	Exchange M/L 1 May 26, 1947
AI-2008	1	AI-2008	Standard Sheet Fabricator 17" x 24" sheet 1790 on 24" x 24" standard 2000 series channel No. 457, type 316 stainless on the tube side and plain carbon steel on the shell side. Maximum 7" for both 2" diameter, for enclosed circulation 3" diameter. Tubes are 1790 304 stainless 66 x 4" or 30 gauge 1790 304 SS tube sheets 3/4" sheet fabricator structure 73 lbs. 1 sq. in. both shell and tube sides.	1,940.00	Exchange M/L 1 May 26, 1947

RECEIVED BY THE DIRECTOR, CENTRAL INTELLIGENCE AGENCY
 O.S. 101 101/101/101

CONTRACT	Serial No.	Quantity Ordered	DATE	PRICE	REMARKS
Johns-Manville Air Conditioning Co., Inc.	70-1200	0			Refrigerant unit, self contained, portable, complete with built-in compressor, 2 hp. 220 volt, 50 or 60 cycle electric motor, air cooled condenser, blower type motor defrosting evaporator, 2 1/2" R. orifice with 1/2" brass 1/2" degree ballast at 80 degree refrigerant - 15,000 BTU/hr. 1/2" degree ballast at 10 degree refrigerant 6,000 BTU/hr. This unit should be same unit used with storage tank above, also with parts. (PA 2000)
P. J. Stokes Co.	67-2410	1		700.00	Refrigerant 1/2" R. Feb. 10, 1967
The Best One Polysar, Inc.	70-2000	1		4,000.00	Polysar 1/2" R. July 20, 1967
The Best One Polysarville, Inc. (Interchangeable)	67-1	1 each		4,700.17	Interchange 1/2" R. Nov. 20, 1967
Aluminum Co. of America	67-2000	1		800.00	Aluminum 1/2" R. April 10, 1967

STANDARD INDUSTRIAL CLASSIFICATION (SIC) 2817

Manufacturer	Serial	Quantity	Part No	Value	Remarks
Franklin Electric Co.	720 0100	6 000	11-11-11		Inventory S/I 03-08 April 16, 1969
	720 0190	6 000			
Franklin Electric Co.	720 0100	750 000		1,875.00	Inventory S/I 03-08 Apr. 16, 1969
	720 0190	100		200.00	Inventory S/I 03-08 Apr. 16, 1969
				1,675.00	Inventory S/I 03-08 Apr. 16, 1969
				2,075.00	Cancelled
St. Lawrence Valve Works	720 0100	100 000			Inventory S/I 03-08 April 16, 1969
	720 0190	100 000		300.00	Inventory S/I 03-08 April 16, 1969
St. Lawrence Valve Works	720 0100	110,000			Inventory S/I 03-08 April 16, 1969
	720 0190	100		200.00	Inventory S/I 03-08 Apr 16, 1969
St. Lawrence Valve Works	720 0100	11,000		6,844.00	Inventory S/I 03-08 Apr 16, 1969
				80.00	

EXPLANATIONS

720 0100 (600 lbs. total) (S/I, Cancel (old cancelled)
(600 lbs. (cancel) (S/I) (cancel)

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SECRET - SECURITY INFORMATION TO BE RELEASED TO THE PUBLIC
DATE 12/14/77

CONTRACTOR	Serial No.	Quantity Required	Agency	7-C 28 Value	EXPIRES
Random Glass Co.	720 010	6 lbs	1111 Grand, Westcliffe, Colorado 80550		Inventory M/L 03-68 April 16, 1969
	720 011	6 lbs	1111 Grand, Westcliffe, Colorado 80550		Inventory M/L 03-68 April 16, 1969
Proforma Refining Co.	720 012	76.000 lbs.	3200 W. 19th, Battery Place, N.Y. 102-18/100 - SAC-EL	1,879.00 620,870 lbs	Inventory M/L 03-68 Apr. 16, 1969
	720 013	100 lbs.	3200 W. 19th, Battery Place, N.Y. 102-18/100 - SAC-EL	1,672.00 107,870 lbs	Inventory M/L 03-68 May 2, 1969
				2,551.00	Cancelled
S.J. Matthews Photo Service	720 014	600 lbs.	1500 S. 1st, Portland, Oregon 97201		Inventory M/L 03-68 April 16, 1969
	720 015	600 lbs.	1500 S. 1st, Portland, Oregon 97201	1000.00	Inventory M/L 03-68 April 16, 1969
Easton's Packaging Co.	720 016	120,000 lbs.	1200 S. 1st, Portland, Oregon 97201		Inventory M/L 03-68 April 16, 1969
	720 017	120,000 lbs.	1200 S. 1st, Portland, Oregon 97201	80,970.00	Inventory M/L 03-68 April 16, 1969
	720 018	120,000 lbs.	1200 S. 1st, Portland, Oregon 97201	4,066.00	Inventory M/L 03-68 May 2, 1969
East of Idaho	720 019	100 lbs.	1000 S. 1st, Portland, Oregon 97201	80.14	Inventory M/L 03-68 April 16, 1969
East of Idaho	720 020	100 lbs.	1000 S. 1st, Portland, Oregon 97201		Inventory M/L 03-68 April 16, 1969

PLANT STOCKS

STATEMENT OF WORKING CAPITAL MATERIALS TO WYLAND
C.I.C. - 14857/70 28/77

CONTRACT	Actual quantity to be ordered	MATERIAL	Unit Price	Amount	Remarks
J. T. Baker Chem. Co.	250 407 250 2476	Chloroform, technical, small, from New Chem. Co., Richard, Michigan (M 19/1960-100-21)	(M 281-20)	\$1,250.00	Invoice M2 8/7 1961 June 14, 1967
J. T. Baker & Co., Ltd.	250 600 150	Phosphoric Acid, 80% WP, Syring. Not available from American Agri. Chem. Co. (OC-219) - Wreck	(M 500 150) 8,000-77	\$1,200.00	Inv. 11, 1961 8/7 1961 2/7 1967 2/7 1967 2/7 1967 2/7 1967 2/7 1967
Waltham Chem. Contract	150 365 150	Acid Thioxy acetic	8,100-20	\$1,215.00	250 200000 from Waltham Contract
J. T. Baker Chem. Co.	250 1070 150	Cellulose, Technical, 100% 2-274	94-00	\$1,410.00	250 2000 8/7 1961 2/7 1967
Richard Barry & Co., Ltd.	150 800 150	Carbon Tetrachloride, Technical, 99.9% 100% pur. (M-219)	9,000-11	\$1,350.00	250 2000 8/7 1961 2/7 1967
Waltham Chem. Contract	250 900 250	Acid Sulphuric C.P., concentrated, C.P. 20	1-00	\$250.00	250 2000 8/7 1961 2/7 1967
Richard Barry & Co., Ltd.	250 1000 250	Carbonyl Chloride - Crystals - 98-99%	14-00	\$3,500.00	250 2000 8/7 1961 2/7 1967
Richard Barry & Co., Ltd.	250 150 250	Triethylamine	50-00	\$12,500.00	250 2000 8/7 1961 2/7 1967

STATEMENT OF WORKS : SUPPLIES TO BOARD
C.P.S. - 1/15/57 TO 3/31/57

CONTRACTOR	Serial No	Quantity Ordered	DESCRIPTION	UNIT PRICE	TOTAL	REMARKS
Wilson Labs., Inc.	WB-1072	10 lb. box	Microscopic Slides (faded numbers) (WB-3041)	\$ 242.00		Shipped M/L 8 June 7, 1957
F. L. Edwards Chem. Works	CF-392	24 lbs.	Purified Tartaric C.P.	6.00		Shipped M/L 2008 May 6, 1957
Wilson Labs., Inc.	WB-1073	12 lbs.	Beef extract (WB-3041)	24.00		Shipped M/L 8 June 7, 1957
Robert Barry & Co. Ltd.		8 lbs.	Clarium (Tartaric) USP IX (WB-317)	10.00		Shipped M/L 20 Nov. 25, 1957
San Francisco Chem. Products	VS 2/5	8 LBS box	Lactose B. C. standard	704.00		Shipped with form for analysis during November 1957
B. De Poly & Paper Co.	WB-1008	720 lbs.	Verbar C 17 (WB-3041)	228.75		Shipped M/L 211 June 25, 1957
J. A. Fisher Chem. Company	WB-1070	1,000 lbs.	Sodium Sulphate, anhydrous C.P. (WB-3041)	200.00		Shipped
Chem & Co. Ltd.	BY 700	100 lbs.	Glass wool, lead free and heavy form, 7100 .0008 to .0020 in. 7000 high purity. (WB-1077)	1,075.00		Shipped from large July 15, 1957
Standardization Serv. (contractor)	FB-104	4.75 grams	Sodium chloride USP VIII 0.2%	5,000.00		Shipped from large July 15, 1957
Wagner & Ball Ltd.	BC 817	6,200 lbs.	Calcium Carbonate	94.54		Shipped M/L 4 Nov. 25, 1957

STATEMENT OF SPECIFIC MATERIALS TO SUPPLIERS
C.S.B. - 11/27/52 208/77

Supplier	Serial No.	Quantity Ordered	Material	F.A.S. Value	Remarks
Packaging Corp., N.Y.	68-0108	40 cms.	Alid, Para-aminobenzoic CP <u>Penicillin Sodium Cryst.</u>	0 00-00	Inventory 1/7/57 April 14, 1957
J. M. & Ball, Inc.		50 grams	Crystal Violet 80% Soln (80-817)	2-17	Inventory 1/7/57 Apr. 14, 1957
Walter Lab., Inc.	58-1071	50 lbs.	Agar, Grammer or strept. MFP (88-800)	500-00	Inventory 1/7/57 June 5, 1957
Wagner & Dahl, Inc.		1,100 grams	Sodium T.P. Lycolate (80-817)	20-71	Inventory 1/7/57 Apr. 14, 1957
		20 lbs. 20 cms. 25 lbs.	Casella scrub Oil Immersion redwood, MFP research Sodium hypochlorite Solution 50%	14-27 9-26 6-78	Quarantined
Chap & Co. Inc.	100	1 ea.	Liquid Air trap Pyrex, 0.8. 8mm Dia. of connecting tube - 20 mm (80-817)	00-00	See 100 shipped 1/7/57
Standard Oil Co. of N.J.	67-5004	3 gal.	Sealing lubricating oil. Pure paraffin oil. Viscosity 100 - 120 MWS 100	2-00	Inventory 1/7/57 June 5, 1957
Waltham Instrument Co.	58-760	3 ea.	Plastic tubing (Vialite) 0.8. 1/16 inch wall Controls, thermostat, MFP - 100% capacity 110 G.P. (88-3009)	18-00 000-00	Quarantined Inventory June 5, 1957
Waltham Corporation Waltham, Mass.	68-2666	40 ea.	Balls, Sharyles Super Centrifuge (88-28-717)	100-00	Inventory 1/7/57 April 14, 1957

SECRET OF MATERIALS TO BE
C.I.A. - MEMPHIS 8/2/77

COMPANY	Serial No.	Quantity Ordered	DESCRIPTION	Job No Value	REMARKS
East Industrial Co., Ltd.	10-000	2 sets	V.V. Motors, Lat. Model, Green Antenna with accessories (21-2084)	0 000.00	Published 1/1 800 Form 8, 1967
Sanatani Industrial Mach Co., Ltd.		6 ea.	Carbon filter, specifications for 14 x 11 (Various) Rad Class EB-1-EE Class 2 construction etc. accessories (22-217)	1000.00	Ordered 1/1 800 Form 14, 1967
East & Co., Ltd.	1070	1 ea.	8 bar distribution system, 8 to 8 O.P.S. (22-207)	200.00	Not yet shipped 1/1 800
		3 ea.	Cylinder cover 18	100.00	Quarantined
Proton Scientific Co., Ltd.	1076	20 lbs.	Flasks, sterilized 8 ea., 1/10 graduation	1100.00	Ordered 1/1 800
Proton Scientific Co., Ltd.	1076	18 ea.	Flasks, sterilized, 50 ea. ea. ground glass (22-207) top, etc.	150.00	Ordered 1/1 800 Form 14, 1967
East & Co., Ltd.	1070	1 ea.	Pumps, oil vacuum pump, Green-Tan, 6 hp. motor, 100 V, 50 cycle. (22-207)	200.00	Not yet shipped 1/1 800
East & Co., Ltd.	1070	1 ea.	Pumps, oil vacuum pump, Vac. less motor 100 V, 50 cycle. (22-207)	200.00	Ordered 1/1 800 Form 14, 1967
Proton Scientific Co., Ltd.	1070	1 ea.	Filters, pressure filter Biological 10 liter capacity each with 1 coarse filter glass. (22-207)	200.00	Ordered 1/1 800 Form 14, 1967
Sanatani Ind. Supplies Ltd.	1077	1 ea.	Centrifuge, Green Colony Count, 200 ml. (22-207)	60.00	Ordered 1/1 800 Form 14, 1967
		4 ea.	Platinum loop	6.00	Quarantined
Proton Scientific Co., Ltd.	1070	200 lbs.	Tubing, rubber, heavy, wall, 1/2 inch ID (22-207)	60.00	Ordered 1/1 800 Form 14, 1967

INVENTORY OF PERMISSIBLE MATERIALS TO POLAND
C.S.B. - SUBJECTIVE REVIEW

Material	Serial	Quantity	Remarks	Serial	Quantity	Remarks
Canadian Lab. Supplies, 134.	1477	6 ea.	Female, Department, 800 ea. approved class (80-207)	0	0 ea.	Lab. Supplies, 134. 2/7 80 Ser. No. 1077
G. V. and Co. Ltd.	1478	6 ea.	Female, Department, Permissible (not justified)	0	0 ea.	2/7 80 Ser. No. 1078
Female Subjects Co. Ltd.	1479	1 ea.	Crab, single wall 800 Y. 80 (U. A.C. (sup'ng A) 81 Substantive Regulator 80-207)	1/2 ea.	1/2 ea.	2/7 80 Ser. No. 1079
British Army & Co. Ltd.	1480	800-1/3 ea.	Army Antenna (80-208)	0-61 ea.	0-61 ea.	2/7 80 Ser. No. 1080
				1 ea.	1 ea.	2/7 80 Ser. No. 1081
				1 ea.	1 ea.	2/7 80 Ser. No. 1082
				1 ea.	1 ea.	2/7 80 Ser. No. 1083
				1 ea.	1 ea.	2/7 80 Ser. No. 1084
				1 ea.	1 ea.	2/7 80 Ser. No. 1085
				1 ea.	1 ea.	2/7 80 Ser. No. 1086
				1 ea.	1 ea.	2/7 80 Ser. No. 1087
				1 ea.	1 ea.	2/7 80 Ser. No. 1088
				1 ea.	1 ea.	2/7 80 Ser. No. 1089
				1 ea.	1 ea.	2/7 80 Ser. No. 1090
				1 ea.	1 ea.	2/7 80 Ser. No. 1091
				1 ea.	1 ea.	2/7 80 Ser. No. 1092
				1 ea.	1 ea.	2/7 80 Ser. No. 1093
				1 ea.	1 ea.	2/7 80 Ser. No. 1094
				1 ea.	1 ea.	2/7 80 Ser. No. 1095
				1 ea.	1 ea.	2/7 80 Ser. No. 1096
				1 ea.	1 ea.	2/7 80 Ser. No. 1097
				1 ea.	1 ea.	2/7 80 Ser. No. 1098
				1 ea.	1 ea.	2/7 80 Ser. No. 1099
				1 ea.	1 ea.	2/7 80 Ser. No. 1100

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Received by Distribution
 2/12/50
 Oct. 1950

SECRET
 SECURITY INFORMATION
 CONFIDENTIAL

Quantity	Serial No.	Material	Part No.	Part Name	Part No.
8 each	8140-0748	Quarter sleeves /P/	(PART 779 Pk. 8)		14-00
8 each		Sleeve nuts /P/			1-00
4 each		Female clutches /P/			18-00
18 each		Flexible coupling /P/			8-00
8 each		Bearing washers /P/			.00
18 each		Ball bearings /P/			28-00
18 each		Bearing oil filters /P/			.00
4 each		Male clutches /P/			9-00
18 each		Belts, chrome plated /P/			118-00
4 each		Spindle - screws /P/			8-00
1 each		Motor assembly complete			28-00
8 each		Ball bearings /P/			14-00
18 each		Ball, /P/			28-00
18 each		Cartridge /P/	(PART 779 Pk. 9) 18 each.		28-00
1 each		Taylor Filletless Boreing Temperature controller, Model 1000, face mounted button actuated, 20 hour spring wound clock, reverse action adjustable sensitivity 1/2 inch, 1/2 inch, Range 0 - 1200, over range protection, 4, each tube system 20 ft. mercury actuated auxiliary, 1/8 inch stainless steel ball with flight extension arm of 1/8 inch stainless steel 20 inch locking ball, 1/2 inch stainless steel ball, for full immersion, 1/2 inch diameter, 1/2 inch, etc., with all accessories, etc. plate. (PART 779 Pk. 8)			600.10

James G. Thompson
 575 2nd
 York Pa 17402

PROPERTY OF PERMITS IN MATERIALS TO POLAR
C.S.B. - 2007/10 09/77
EMERGENCY SPACE SHUTTLE LOGS

Supplier Instrument No. (cont.)	Serial No.	Quantity	DESCRIPTION	Unit Value	Inventory
87-60		1 each	LEAKOFF Buss as item L, except each tube system 10" and 10/8 stainless steel bulb with rigid extension stem of 10/8 stainless steel, in 2/8" insulating bulb. (SPEC 779 Pt. 6)	678.00	
		1 each	LEAKOFF Buss as item L, except 1 pen and 1 control system 10" service extension tubing 10/8 stainless steel bulb with rigid extension of 10/8 stainless steel, 2/8" long including bulb. (SPEC 779 Pt. 6)	204.00	
		3 each	GLASS 1/4" reducing valve (SPEC 779 Pt. 6)	61.00	Inventory
		3 each	HEAVY Air Filter. (SPEC 779 Pt. 6)	18.00	2/7/78
		3 each	HEAVY 2 1/2" 1 inch Diaphragm valve, standard construction. (SPEC 779 Pt. 6)	113.00	Spec. 26, 2007
		3 each	GLASS Taylor 2 inch Diaphragm valve, standard construction. (SPEC 779 Pt. 6)	145.00	
Partners Instrument Co.	87-60	1 each	Heating Tanks, to be of carbon steel 5/16" plate, outer - 48" diameter, 60" high. To be mounted on 2" legs with threaded feet plates for leveling (SPEC 779 Pt. 6)		
		3 each	Air Filter: (for Perceps) Carbon steel 1/2" pipe overall. Bottom 1/2" to be circular to 5/8" outlet equipped with globe valve, top to be flange and removable - vessel to be constructed of 1/2" standard pipe and headed to 2 1/2" dia. - a 1/2" perforated plate to be installed at base of pipe for vent support and 1/2" perforated plate supported by flanged top to extend inside of pipe 1/2". Two 3/8" diam. to be added to vessel diametrically opposite about 6" from top. 3/8" inlet placed just below bottom perforated plate per paragraph attached. (SPEC 779 Pt. 6)		
		3 each	Air Filters (for each vessel) Carbon steel 60" overall. (cont. with spec)		

Inventory
2/7/78
Spec. 26, 2007

URGENT (V) MICHIGAN 080145Z TO WFOJAD
0-2-3 - 2100/78 080177
URGENT 0801 1800 1800

Serial	Quantity	Material	Remarks	Disposition
1	1 each	Flange 1/2" x 1/2" x 1/2" (cont.) Mater. 11, Comstock A Balling Flanged Flat Face Material of Fittings Brazing Flux Oxide, Tubed Seal Oxide tube with 2 raised glass ribs to secure and to guide the Flange Packing. Supports, Connections to Pans, Inlet-Left, Outlet-Right, valves otherwise specified, Final Brazing Fittings Body entering tube 1/2" dia, handle 300 m. dia, type of seals & valves direct reading Flat specifications M-11-1 of standard sheet. FLUID SPECIFICATIONS Fluid Air Oxide & Temperature Temperature: Specific Gravity 1.40, Operating Pressure Atmosphere: Operating Temperature 100% Maxim Flow: 200 CFM, Maximum Flow 1500 Flange valve bearings and pressure correction curves. (MIR 770 Pt. 4)	1/2" each MIR 11, 1800 MIR 18, 1800	
2	1 each	Flange 1/2" x 1/2" x 1/2" (cont.) Mater. 11, Comstock A Balling Flanged Flat Face Material of Fittings Brazing Flux Oxide, Tubed Seal Oxide tube with 2 raised glass ribs to secure and to guide the Flange Packing. Supports, Connections to Pans, Inlet-Left, Outlet-Right, valves otherwise specified, Final Brazing Fittings Body entering tube 1/2" dia, handle 300 m. dia, type of seals & valves direct reading Flat specifications M-11-1 of standard sheet. FLUID SPECIFICATIONS Fluid Air Oxide & Temperature Temperature: Specific Gravity 1.40, Operating Pressure Atmosphere: Operating Temperature 100% Maxim Flow: 200 CFM, Maximum Flow 1500 Flange valve bearings and pressure correction curves. (MIR 770 Pt. 4)	1/2" each MIR 11, 1800 MIR 18, 1800	

STATEMENT OF PURCHASE MATERIALS TO BE ORDERED
 C.I.A. - WASHINGTON
 EXECUTIVE SPAN 1472 127

Manufacturer	Part No.	Quantity	Description	Date	Remarks
Standard Valve Co.	8185	1 each	3/8" 16/19 Back Pressure Regulator, cast iron body, flanged ends, 120 PSI. W. Standard front 16/19 stainless steel trim. Grease sealed lubricator. 1/2 Green PT cone. Adjustable range 0-300 PSIG. Controlling air 0-300 PSIG. (Part 199 Pt. 2)	10-68	Standard Valve 120 PSI Std. 10-68
Standard Valve Co.	8185	1 each	1/8" 16/19 Back Pressure Regulator, Cast Iron body, screwed ends, 160/18 stainless steel trim. Grease sealed lubricator. 1/2 Green PT cone. Adjustable range 0-300 PSIG. Controlling air 0-300 PSIG. (Part 199 Pt. 2)	10-68	Standard Valve 120 PSI Std. 10-68
Standard Valve Co.	8185	1 each	Standard Army Cup Rheostats (Part 199 Pt. 2)	10-68	Standard Valve 120 PSI Std. 10-68
Standard Valve Co.	8185	1 each	10" stainless steel magnetic float. 9/16" x 1/8" O-ring seal. (Part 199 Pt. 2)	10-68	Standard Valve 120 PSI Std. 10-68
Standard Valve Co.	8185	1 each	10" stainless steel float valve. 1/8" O-ring seal. (Part 199 Pt. 2)	10-68	Standard Valve 120 PSI Std. 10-68
Standard Valve Co.	8185	1 each	Standard Army Cup Rheostats (Part 199 Pt. 2)	10-68	Standard Valve 120 PSI Std. 10-68
Standard Valve Co.	8185	1 each	Standard Army Cup Rheostats (Part 199 Pt. 2)	10-68	Standard Valve 120 PSI Std. 10-68
Standard Valve Co.	8185	1 each	Standard Army Cup Rheostats (Part 199 Pt. 2)	10-68	Standard Valve 120 PSI Std. 10-68
Standard Valve Co.	8185	1 each	Standard Army Cup Rheostats (Part 199 Pt. 2)	10-68	Standard Valve 120 PSI Std. 10-68
Standard Valve Co.	8185	1 each	Standard Army Cup Rheostats (Part 199 Pt. 2)	10-68	Standard Valve 120 PSI Std. 10-68
Standard Valve Co.	8185	1 each	Standard Army Cup Rheostats (Part 199 Pt. 2)	10-68	Standard Valve 120 PSI Std. 10-68

STATEMENT OF WORKS AND MATERIALS FOR PARTICULATE FILTERS TO BE FABRICATED BY THE CONTRACTOR

CONTAINER	QUANTITY	MATERIAL	UNIT PRICE	TOTAL VALUE	REMARKS
Case & Co., Ltd.	100' 21"	1" type 304 S.S. stainless steel seamless tubing	1.873.46	1,873.46	ADVANCED FILTERS 3/4" dia. 25/100
	300' 21"	2" type 304 S.S. "	3.29.52	989.52	

The following items were all shipped on the Intero, 3/11/58, January 22, 1948 packed in 6 boxes, gross weight, 1,723 lbs., value \$1,740.57

64	1" #1800 stainless steel valves
5	1 x 1/2 #1800 stainless steel ben. bushings
4	1 1/4 x 1 "
6	1 x 1/2 "
6	2 x 1 1/4 "
6	1/2 x 1 1/4 "
2	#1800 stainless steel gate valves SC
11	10 #1800 stainless steel 90° welding elbows
12	" "
16	" "
22	1/4" 355 1/2 all iron SCB globe valves
50	1/2" #355 all iron SCB globe valves
26	1 1/2" "
13	2" "
16	3/4" "
1	1/4" #355 all iron SCB gate valves

The following items were all shipped on the Intero, 3/11/58, February 19, 1948 packed in 20 boxes, gross weight, 10,824 lbs., value \$1,740.57

700	1/2 x 1 1/2" dia. 34.6 iron steel machine bolts with hexagonal nuts
90	1 1/2" #19 dia. N.I. 4" valves
90	1/4" "
27	1/2" "
60	3/8" "
100	1" #19 bolts N.I. 1/2" nuts
90	1 1/2" dia. dia. C.I. 1" valves
24	1/2" "
90	1/2" "

Item No.	Quantity	Unit	Description	Unit Price	Total Price
1	100	feet	1/2" steel pipe, threaded and capped	9.20	9.20
2	100	feet	1/2" steel pipe, threaded and capped	14.17	14.17
3	100	feet	1/2" steel pipe, threaded and capped	18.60	18.60
4	100	feet	1/2" steel pipe, threaded and capped	15.87	15.87
5	100	feet	1/2" steel pipe, threaded and capped	26.20	26.20
6	100	feet	1/2" steel pipe, threaded and capped	10.40	10.40
7	100	feet	1/2" steel pipe, threaded and capped	22.77	22.77
8	100	feet	1/2" steel pipe, threaded and capped	19.00	19.00
9	100	feet	1/2" steel pipe, threaded and capped	18.20	18.20
10	100	feet	1/2" steel pipe, threaded and capped	64.65	64.65
11	100	feet	1/2" steel pipe, threaded and capped	18.20	18.20
12	100	feet	1/2" steel pipe, threaded and capped	64.65	64.65
13	100	feet	1/2" steel pipe, threaded and capped	190.00	190.00
14	100	feet	1/2" steel pipe, threaded and capped	1,400.00	1,400.00
15	100	feet	1/2" steel pipe, threaded and capped	177.45	177.45
16	100	feet	1/2" steel pipe, threaded and capped	1,400.00	1,400.00
17	100	feet	1/2" steel pipe, threaded and capped	10.20	10.20

Sub total

Sub total

REPORT OF THE ...

Item No.	Description	Quantity	Unit	Value	Total
1	60 200 all iron pipe valves				
2	60 200 all iron pipe valves 7 1/2" dia. 10' under water locked				
3	60 200 all iron pipe valves 7 1/2" dia. 10' under water locked				
4	3 5/8" dia. 10' iron valves				
5	2 1/2" x 2 1/2" iron valves				
6	10 200 iron valves				
7	10 200 iron valves				
8	10 200 iron valves				
9	10 200 iron valves				
10	10 200 iron valves				
11	10 200 iron valves				
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87	10 200 iron valves				
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89	10 200 iron valves				
90	10 200 iron valves				
91	10 200 iron valves				
92	10 200 iron valves				
93	10 200 iron valves				
94	10 200 iron valves				
95	10 200 iron valves				
96	10 200 iron valves				
97	10 200 iron valves				
98	10 200 iron valves				
99	10 200 iron valves				
100	10 200 iron valves				

Sparreholz 3/2 801
Tot. 15,194g (estimated)

Case No. 100-17

Internal Security - Communist

The following

- 1. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 2. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 3. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 4. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 5. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 6. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 7. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 8. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 9. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 10. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 11. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 12. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 13. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 14. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 15. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 16. [Name] b7C, b7D, [Address] [City], [State], [Date]

The following listing was obtained from the [Source], [Date], total value \$[Amount].

- 1. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 2. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 3. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 4. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 5. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 6. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 7. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 8. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 9. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 10. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 11. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 12. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 13. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 14. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 15. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 16. [Name] b7C, b7D, [Address] [City], [State], [Date]

The following listing was obtained from the [Source], [Date], total value \$[Amount].

- 1. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 2. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 3. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 4. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 5. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 6. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 7. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 8. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 9. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 10. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 11. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 12. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 13. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 14. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 15. [Name] b7C, b7D, [Address] [City], [State], [Date]
- 16. [Name] b7C, b7D, [Address] [City], [State], [Date]

RECEIVED BY THE COMPANY FROM THE SUPPLIER

DATE: 1/15/54

The following piping is to be installed on the first available vessel. Total value \$774.46.

QTY	DESCRIPTION	UNIT	AMOUNT
1	1" Black pipe, threaded and coupled	ft.	210.00
1	1" galv. pipe, threaded and coupled	ft.	210.00
10	1/2" Black pipe, plain ends	ft.	105.00
15	1/2" galv. pipe, plain ends	ft.	150.00

The following items are to be delivered by February 20, 1954 and will be delivered as soon as possible.

QTY	DESCRIPTION	UNIT	AMOUNT
6	1" galv. pipe, threaded or coupled	ft.	120.00
10	1/2" Black pipe, plain ends	ft.	105.00
15	1/2" galv. pipe, plain ends	ft.	150.00

This will constitute the last and final order of piping and fittings for the installation plant. Total value \$774.46.

REPORT OF THE DIRECTOR OF THE BUREAU OF THE ARMY AND AIR FORCE
 1947-1948

1000

Serial No.	Quantity	Description	Unit Price	Total Price	Date
43-2959	1	1447 Canadian Supercol and Class 51 - F Class 2 centrifugal air compressor complete with a necessary price inclusive.			31-1-47
43-2959	1	Filter, Air inlet Class 51 items not included in original shipment in Serial 43-2959, but later ordered in Serial 43-2959 2205, Ser. 21 67			
43-2959	1	Receiver, Air, 42" x 12"			
43-2959	1	After Cooler, 20" dia, with safety valve		\$2,908.65	31-1-47
43-2959	1	Compressor, Class 51, 3 phase, 50 cycle temperature, starting, for above 60 H.P. motor			1-2-1954
43-2959	1	1447 Canadian Supercol, Class 51 pump and necessary price inclusive.			
43-2959	1	Motor, 20 H.P., 38-27 V. 3 phase, 50 cycle including start. & compensator			
43-2959	1	Motor, 22 H.P., 38-27 V. 3 phase, 50 cycle including start. & compensator			
43-2959	1	Motor, 3 phase, 50 cycle, 1500 rpm, 38-27 V. with 4" dia. pipe, protected 1/2" dia. gaskets in a lubrication motor with normal starting torque and low starting current and 20 amp base for motor, see late with starters.		\$ 496.24	31-1-47
43-2959	1	Motor, 1/4 or 1/2 H.P., 38-27 V. 3 phase, 50 cycle.		\$ 172.00	31-1-47
43-2959	1	21 1/2" dia centrifugal pump, standard fitted with open type iron impeller, ball bearings, direct mounted to 1 1/2" dia 90 cycle, 220 3/4 volt, 1500 rpm standard integrated pre- loaded type motor, together with manual starting action bearing thermal overload protection		\$ 197.77	31-1-47

INVENTORY OF EQUIPMENT

Serial 100-100000-266

Serial No.	Quantity	Description	Value	Remarks
41-3014	1	Fairbanks-Morse 1 1/2, Figure 5531, all iron centrifugal pump mounted on base and direct connected through flexible coupling to and located by an Electric Motor & Equipment Company 3 hp., 3 phase, 50 cycle, 100 220 volts, 15 1/2 275, 50 1/2 rpm, standard protected type electric motor		Examples July 19, 1947 8 11273
41-3015	1	Fairbanks-Morse 1 1/2, Figure 5531, all iron centrifugal pump mounted on base and direct connected through flexible coupling to and including an Electric Motor & Equipment Company 3 1/2 hp., 3 phase, 50 cycle, 100 220 volts, 15 1/2 275, 50 1/2 rpm, standard protected type electric motor.	8 813.96	
41-3016	1	Thermometer, instrument locating, 2 1/2 11273 10/10, 2 pos second, with left and right tube system, 2000, leads, with a 1 1/2 11273 10-000 stem and silver connection at end, range of instrument, 0-275°F., with conversion protection 2 about 10-25-134.		Gifted Pharmacy Jan 1, 1947 7 119
41-3017	1	Thermometer, recording, 2 pos, chart form as above except for 1 1/2 leads & 22-1 1/2 stem.		
41-3018	1	Thermometer, recording, 1 pos, same as above except for 1 1/2 leads & 22-1 1/2 stem.	8 694.89	
41-3019	2	2750 rpm agitators having 2 hp., 30, 275 rpm 3 phase 50 cycle, 15 1/2 275 rpm protected motor stainless steel shaft, and propeller for use in tank 40" dia. x 47 1/2 deep. 8	108.00	Examples July 19, 1947 8 11273
41-3020	2	Tanks, 7 1/2 x 1 1/2		
41-3021	1	Tanks, 40" dia. x 1 1/2 5/8" plain steel complete with 2750 rpm agitator and alloy steel tank 40" dia.	8 11273.00	Examples July 19, 1947 8 11273
41-3022	2	Turbomixers, impellers, guard plate for agitation without motors. (10 1687)	8 11273.00	Examples July 19, 1947 8 11273
41-3023	1	Sample pure penicillin 1 crystal form 1687		
41-3024	1	Sample pure penicillin 1 crystal form 695 (non-standard) turned over to treatment.		

REPORT OF MATERIALS EXPENSE TO BUREAU

U.S. B-1758 70-266

OFFICE	SERIAL No.	QUANTITY Ordered	MATERIAL	UNIT PRICE	TOTAL	REMARKS	
Anti-Biotics, U.S. Post & Drug (continued)		1	Sample standard streptococcus serum 2097				
		1	Sample Bacillus subtilis 52 702-270				
	Northern Regional Research Lab.		1	Sample penicillin chromatogram 1964 872			
			1	Sample penicillin acetate 812			
			1	Sample Bacillus brevis Babes 7541			
	1	Sample EHEC 1612			Turned over to Williams		
Madison Wisconsin		1	Sample L-1612 in soil				
		1	Sample culture 3				
		1	Sample culture 376				
Small Boiler 164.	41-1017	1	60" dia. by 15'-5" long storage tank welded construction made of 1/2" steel plate in shell 7" flatheads, with 16" ballbed manhole 4 way 2" covered outlets and two 7" in each head. Painted two deep coats of industrial grade oil, all outlets to be plugged for shipping.	\$ 270.00		Creedy S. Kays Dec. 23, 1946 B. J. B	
Paranda Copperwelding Co. 164.	41-1076 78-2	1	50 gal. 82 covered tanks with circular bottom & 8" cooling coil (This tank shipped without agitator & thermometer) (The agitator & thermometer for above tank was ordered with 390 gal. Tank Order. 41-1107)	\$ 434.36		American Plastics Dec. 11, 1946 B. J. B	
	41-1076 78-2	120	Tanks (aluminum or Copper Construction) with individual compartments like egg crates for holding vials during freezing and drying	\$1,043.00		American Plastics Dec. 11, 1946 B. J. B	

PROPERTY OF THE NATIONAL BUREAU OF STANDARDS

Serials 1-1758, 70-266

Page 4

COMPANY	Serial No.	Quantity Ordered	DESCRIPTION	Value	REMARKS
Taylor Instrument Co.	AI-1096 PA-2	2 only	Single Pen Taylor Recording Thermometer Chart No. 27 3502, range 0-200° 10' lead 18-1/2" diameter tubing stem length 24" with one Triose Air Filter and one air reducing valve #5 and one Taylor Ross Steel Free Action Diaphragm valve.		American Railway March 24, 1947 N/2 3
	AI-1098 PA-2	4 only	Single Pen Taylor Recording Thermometer Chart No. 27 3502, range 0-200° 10' lead, 18-1/2" diameter tubing, stem length 20" with one Triose Air Filter and one air reducing valve # 5 and one Taylor Ross Steel Free Action Diaphragm valve.		
Canadian Bridge Co., Ltd.	PA-2 AI-1097	4 only 2 only	Taylor Range Thermometer 2 Substances for steam sterilizing of Penicillin Flasks, diameter 30", length 7'.	\$1,222.32 \$1,693.00	American Railway Dec. 11, 1947 N/2 31
Canadian Ice Machine Company	AI-1099	1 only	Canadian Ice Refrigerator units (Compressor & Piping)	\$ 341.75	Charalgarer Nov. 24, 1947 N/2 100
English Electric Co. of Canada Ltd. AI-1066 PA-3		2 only	Squirrel 250 Motors, Frame 126, 150.0. 1500 RPM 220/300 volts, 3 phase, 50 cycles, 50°C. class, continuous rated, protected type, with ventilation bearings and with sliding beam but without pulley		
Galveston Steel Co. Ltd.	AI-1108	10	Ball Drive, Ball, Dodge V., for 15 h.p. motor, ball and pulley to fit on motor	\$ 414.25	Removable July 19, 1947 N/2 1280 Not yet shipped availability W 6137
Toronto Apparatus Co. Ltd.	AI-1107 PA-1	4 2	200/300 Can form 221, 10 gal., complete with gauge and safety valve.	\$ 280.31	
Toronto Apparatus Co. Ltd.	AI-1107	1	Yank, 350 W.P. Galium stainless steel with coil	\$ 602.03 \$ 270.07	Prohibited Sign in Apr. 28, 1947 N/2 1258

INVENTORY OF MATERIALS BELONGING TO RESEARCH
 ON
 C.I.B. - BUREAU/NO 209/77

CONTRACTOR	Serial Number	Quantity Ordered	MATERIAL	FAS # Value	REMARKS
Gammex, Ltd.	AI-3018	1 only	Tanks, closed, 200 U.S. gal. 48" Dia. 36" jacketed glass lined with 2" insulation and steel sheathing, with agitator and 3/4 h.p. explosion proof motor and drive. (S) 712.27		Cooper B'Alamo Victory Jan. 25, 1947 N/A 31
	PA-1	3 only	Tanks, 25, 400 U.S. gal. 48" x 63" with agitator and 1 h.p. explosion proof motor.		Adm'd Mar 11, 1947 N/A 2019
	PA-1	1 unit	Birdellation Unit, glass lined, 2' diameter, consisting of 50 gal. glass lined bottle, 2' miller #5-51449, 50 gal. glass lined hood, 2' miller #5-51451, and 2' agitator. 2' miller #5-51450.	9,036.61	Cooper B'Alamo Victory Jan. 25, 1947
	PA-1	2 only	Tanks, six, 50 U.S. gallon, glass lined, furnished 24" ID x 29" insulation, steel sheath, with agitator and 1 h.p. explosion proof motor.	8,727.35	Adm'd May 31, 1947
	PA-2	3 only	Tanks, buffer, 200 gal. 28" 40" x 38" 3/8" with agitator and 3/4 h.p. explosion proof motor. Several bags of bank notes and odd banknotes, (obtained from Montreal)	81,168.52	Adm'd March 15, 1947
	PA-1	1 only	Tanks, 100 U.S. gallon, glass lined, jacketed, insulated and steel sheathed with agitator, baffles and 3/4 h.p. explosion proof motor.	6,320.77	N/A 1228
	PA-1	2 only	Tanks, 50 U.S. gallon, glass lined	81,524.01	Adm'd May 15, 1947
				81,283.60	Adm'd General
					Chemistry June 20, 1947 N/A 1283
	Mulling Corp., Ltd.	AI-3019	4	Sharples 16" Super Centrifuge Victor Tight Model Pressureless belt drive with explosion proof motors	816,919.34
PA-2			6 separating bowls, 1 clarifying bowl, all 60		
		1 Set	Sharples Laboratory Model Centrifuge direct drive 60 bowls, 1 clarifying, 2 separating		N/A 1284

STATEMENTS OF PURCHASES RELAYED TO BUYERS
 C.B.S. 8-1857/UC 289/77

CONTRACTOR	Serial No	Quantity Ordered	MATERIAL	FAS OR Value	SHIPMENT
Fisher and Porter Company	A1-3025	1 only	Broth Rotameters		Crosby S. Bayne Dec. 23, 1947 8/4, 12
		1 only	Acetate Rotameters		
		1 only	Phosphoric Acid Rotameters		
		1 only	Rotameters for mixing		
W.A. Coyne, J.P. Devine Mfg. Co. Division, R.I. Porter Co., Inc.	A1-3024 PA-2	5 only	Special No. 1A Devine Vacuum Chamber Driers, each Cabinet to have 5 or 6 chambers.	\$ 4,506.09	Oct. 30, 1947 2 each/Challinor's 8/4, 1214 (3 ea.) Challinor's Oct. 30, 1947 8/4, 1214
Canadian Laboratory Supply	A1-3026	1 only	International size 2 oil testing centrifuge with 267 A Miter head	\$ 523.10	Decempler July 19, 1947 8/4, 1222
		2 only	Model 40 S 50-10 Brewer Automatic Pipetting Machine	\$ 360.67	American Pharmacy Dec. 13, 1946 8/4, 31
P.S.B. Howard & Co., Ltd.	A1-3022 PA-2	1 only	Elliot Four-stage steam with intercondenser operating 115 lb. steam pressure		May 21, 1947 8/4, 794
		1 only	Elliot three-stage steam ejector for use in sterilizing operations.	\$ 1,000.07	
John Ingalls Co., Ltd.	A1-3109 PA-3	1 set	Pump, etc., consisting of: 1 each Acetate Pump 1 each Broth Pump 2 each Strong Acetate Transfer Pumps 1 each Special Acetate Transfer Pump 1 each Wash Tank & Ball-trust Filling Pump 1 each Chloroform Pump 1 each Spare Pump (10 gm 25-30 ft. head gear pump, 1/4 h.p. with explosion proof 85 gears, cast steel castings or equivalent.) 1 each gear pump, 10 gm., 30' head, hard rubber 1/4 h.p. explosion-proof	\$ 2,072.00	Challinor's Oct. 7, 1947 8/4, 1209

REPORT OF PURCHASE MATERIALS TO BE OBTAINED
 C.I.B. 8-1587/SC 289/77

CUSTOMER	Serial No.	Quantity Ordered	MATERIAL	FAB TO	SHIP-OUT
John Amos Air Conditioning Co., Inc.	P-1258	8	Refrig-unit, self contained, portable, complete with carrier compressor, 3-p.220volt, 50 or 60 cycle electric motor, air cooled condenser, blower type water defrosting evaporator, 37.8. capacity with freeze. 124 degree load at 25 degree reffrig-erant - 10,000 B.T.U./hr. 124 degree load at 15 degree reffrig-erant 8,900 B.T.U./hr. unit furnished should be same unit used with storage tank above, with spare parts. (BA 2895)	John	Feb 19, 1947 3/1 1947
F.J. Stokes Co.	CP-1082	5	Pressure Gauge, Polished	\$ 400.00	March 25, 47 3/1 1946
The West Co., Phila., Pa.	Two 5255 P-1 2563	1,000,000	Stop ers, soft rubber, to fit 20oz penicillin bottles. (87 rubber sheet composition, purchased, to be shipped 8-29. (84-191,791-425-6)	\$4.35.0	General Chemistry June 20, 1947 3/1 1947
The West Co. Philadelphia, Pa. (Richardson Agencies)	812	1 each	Machine, copying, semi-automatic with ph.p. capacity, 120/220 volt, 40watt, heavy type bookkeeper de-sign to fit 8 erasor in side, triple seal aluminum case of penicillin bottles, at the rate of 1.00 per minute. (84-191,791-425-6)	\$ 4,750.17	Not yet shipped A certificate 28 - 3864
Aluminum Co. of America	Type 5465 P O A 2224	500,000 1,100,000 gross	Triple Seal Aluminum Caps Single Seal Aluminum Caps	\$1,070.63	General Chemistry June 20, 1947 3/1 1947
Charles Glass Co.	Type 1123 P O A 2178	4,934 gross	Glasses, aluminum, 20mm; blue tinting No. 8-89 rubber stopper for penicillin bottles; plates on stainless steel; aluminum Co. of America No. 28-128, (84-191,791 - 425-6)	\$10,000.00	Not yet shipped A certificate 28 - 3864

REPORT OF PHYSICIAN WITNESS TO RESULTS

CONTRACTOR	Serial No.	Quantity ordered	MATERIAL	7-15-35 Value	SHIPMENT
Corn Products Refining Co.	Type 541 P & A 2112	75.776 lbs	Stamp water. Available from Corn Products Refining Co., 17, Battery Pl., N.Y. (35-192,788) 2 & 3-21/200 tons)	\$1,328.88	Box May 21, 1947 N.Y. 335
		35	Same as above	\$2,746.00	Generalized
Mallinckrodt Chem. Works	Type 541-3 P & A 2113	1 lb.	Potassium dihydrogen phosphate mono-hydrate. Availible from Mallinckrodt Chem. Works, St. Louis, Mo. (35-192,788 - 240-21)	\$ 326.70	General Chem. Works June 20, 1947 N.Y. 331
Eastern Contracting Co.	Type 517 P & A 2106	117,821 lbs	Leadless (High Speed) Commercial Grade in 100 lb. cans. (35-192,788-240)	\$23,972.30	American Flattery March 24, 1947 N.Y. 348
Bell & Company	Type 6122 P & A 2107	11,504 lbs	Pesticidal Refining Agent (35-192,788)	\$4,978.54	Mullinckrodt May 20, 1947 N.Y. 344
			P. Bell's Carb of Toledo		
Out of Toledo	Type 2044 P & A 2108	575 pairs	Bich, P. 171, top 1/2 x 1 1/2 in. bottom 9/16 in. (free)		
		210 lbs.	Phosph. 2-L. Feed (acid carbolla)		
		20 lbs.	Magnesium Sulphate crystals	\$18.14	
Ben Sealand Carb. Contract	Type 316 P & A 2109	2 long tons	Leadless B.F. Standard	704.00	Ben Sealand Carb. Contract January 1947

SHIPMENTS OF RESEARCH MATERIALS TO JMWAL

CONTRACTOR	Serial No.	Quantity Ordered	MATERIAL	FAV BS Value	SHIPMENT
J.T. Baker Chemical Co.	75-107	16,900 lbs	CHLOROFORM, technical, small, from J.T. Baker Chem. Co. (1917-18-19-20-21)	\$1,160.30	General Chemistry June 26, 1947 N.A. 1282
Robert Berry & Co. Ltd.	PC 383	21,320 lbs	Phosphoric acid, 75 SSP, Syring. Not available from American Lab. Chem. Co. (1917-18-19-20-21)	\$6,821.08	Batch 1, A 212 June 24, 1947
British Govt. Contract	PC 383	1,000 lbs	Acid Phosphoric (800)	\$1,108.25	RECORDED N.A. 1282 Oct. 2/47, Not Shipped
J.T. Baker Chemical Co.	T. 1070	400 lbs	Sodium Hydroxide C.P. reagent, sticks, 14-2041	\$ 132.00	Prepacked July 19, 1947 N.A. 1281
Robert Berry & Co. Ltd.		14,800 lbs	Sodium Hydroxide, technical. (Loses 1.00% wt.) (1917-18-19-20-21)	\$2,980.56	Not Yet Shipped Availability N.A. 1282
P.H.J. Report Corp. N.Y., N.Y.	CP 3932	9 lbs	Acid Sulphuric C.P. concentrated, C.P. CP	\$ 1.40	Frederick Reigels April 22, 1947 N.A. 1282
Difco Lab., Inc.	TS 1071	Bulk grams	Cystine L - Cystine - 14 NaCl	\$ 74.80	Autoid - May 11, 1947 N.A. 1282
Ingram & Bell, Ltd.	SC 517	2.12 lbs	Pyridin 1.75 Penicillin substance	\$ 820.00	Not Yet Shipped Availability N.A. 1282
Difco Lab., Inc.	TS-1071	21 Kilos	Penicillin Extract (dried penicillin) 14-2041	\$ 243.00	Autoid - May 11, 1947 N.A. 1282
Malabar Chemical Works	CP-3931	21 lbs.	Ferric Tartrate 70	\$ 6.66	Autoid - May 11, 1947 N.A. 1282
Difco Lab., Inc.	TS-1071	12 lbs.	Acid extract 14-2041 (paste)	\$ 26.50	Autoid - May 11, 1947 N.A. 1282
Ingram & Bell, Ltd.		1 lb.	Clayton (Diabase) USP II (SC-517)	\$ 3.27	Not Yet Shipped Availability N.A. 1282
F. V. Pulp & Paper Co.	TS-107A	650 lbs.	Powder 140 F 14-2041	\$ 193.09	General Chemistry June 26, 1947 N.A. 1282
J.T. Baker Chemical Co.	TS-1070	1,200 lbs.	Sodium Sulphate, anhydrous C.P. 14-2041	\$ 352.80	Cancelled
Corro & Co. Ltd.	217	600 lbs.	Glass wool, lead free and boron free, (140-0000 to 000) 14. Pyrex high stability. (SC-507)	\$1,093.25	Not Yet Shipped Availability N.A. 1282

REPORTS OF PURCHASED MATERIALS TO BEARER

CONTRACTOR	Serial No.	Quantity Ordered	MATERIAL	FAA #	Invoice	SHIPMENT
Franklin Electric Co., Inc.	PC-354	4,770 lbs	Sodium nitrate USP VII 0.26		\$2,808.91	Shipped from Procter to Erie - June 30, 1947 - 880
P.H.L. Report Corp., B.T.	CP-3952	40 ea.	Asid, Para-methanamide of		\$ 82.25	Frederick Reigle April 22, 1947 W/ 1206
Ingram & Bell, Ltd.		50 grams	Crystal Violet 678 Bacto (EC-517)		\$ 2.17	Not Yet Shipped Availability on 5762
McFay Lab., Inc.	TS-1071	50 lbs.	Agar, granular or strands, 3% (4-1041)		\$ 102.50	Actual - May 21, 1947 W/ 1206
Ingram & Bell, Ltd.		1,100 gm.	Sodium Thioylsulfate (EC-517)		\$ 36.72	Not Yet Shipped Availability on 5762
		22 lbs.	Casein powder		\$ 16.50	
		20 ea.	Oil Immersion objectives, 80x magnification		7.00	CANCELLED
		25 lbs.	Sodium hypochlorite solution 5%		8.75	
Boon & Co. Ltd.	1515	2 each	Liquid Air trap Pyrex, O.P. 28 mm dia. of connecting tube - 20mm (EC-517)		\$ 42.28	Not Yet Shipped Availability on 606
Standard Oil Co. of S.J.	CP 3954	5 gals	Boiling lubricating oil, Pure paraffinic oil, Flashing 100 - 121 (EC-100)		\$ 12.50	Actual - May 21, 1947 W/ 1206
Whelan Instruments Co.	TS-740	2 ea.	Plastic tubing (Vinyliene) 0.9" I.D. 1/16 inch wall		\$ 15.00	CANCELLED
		2 ea.	Controls, Thermostat, 23° - 100° F. Capacity 110 C.P. (88-2079)		\$ 998.78	Actual - May 21, 1947 W/ 1206
Ingram & Bell, Ltd.	EC-517	3.856 lbs.	Calcium Carbonate		\$ 249.36	Not Yet Shipped Availability on 5762

SHIPMENTS OF LABORATORY MATERIALS TO TUSKIGEE

CONTRACTOR	Serial No.	Quantity Ordered	DESCRIPTION	UNIT PRICE	TOTAL	REMARKS
Rayco Corporation Philadelphia, Pa.	OP-1464	40 ea.	Boite 5 Meters Paper Counting (F-40-75)	1120.00	44800.00	American Factory 2-2-5 March 24, 1947
James Instrument Co., Inc.	18-633	2 sets	7.5 x 10 x 10 cm. (3.15 x 3.15 x 3.15 cm.) animal water	422.50	845.00	asked - B/L 12/24 Nov. 23, 1947
Canadian Ingersoll Rand Co., Ltd.		5 ea.	Carbon rings replacements for No. 11 Ingersoll Rand 2.5 x 8.5 x 1.5 class 2 construction air COMPRESSOR (6-507)	1120.00	5600.00	Charliger - B/L 12/24 Nov. 25, 1947
Cave & Co. Ltd.	1470	1 ea.	Water purification apparatus, 1 to 5 G.P.M. 30-5	427.20	427.20	Not Yet Shipped Availability 28 5-59
		25 ea.	Shoeleather, leather shoes (1 pair) For Spalding & Harlan	0.00	0.00	CANCELLED
		5 ea.	Cylinder, neon 12	100.00	500.00	
Fisher Scientific Co., Ltd.	1475	20 lbs.	Plastic, Serological 5 ea., 200 graduations	110.48	2209.60	
Fisher Scientific Co., Ltd.	1476	14 ea.	Flasks, Serologic, 50 cc ea., ground glass	110.48	1546.72	Distri Donahay Dec. 6, 1947
Cave & Co., Ltd.	1470	1 ea.	Pump, 110 vacuum cascade, 200 G.P.M. (6-507)	110.48	110.48	Not Yet Shipped Availability 28 5-59
Cave & Co., Ltd.	1470	1 ea.	Pump, oil vacuum cascade, 100 G.P.M. (6-507)	110.48	110.48	Not Yet Shipped Availability 28 5-59
Fisher Scientific Co., Ltd.	1476	1 ea.	Filters, pressure 500 cc biological 10 liter capacity (6-507)	110.48	110.48	Distri Donahay Dec. 6, 1947
Scientific Lab. Supplies Ltd.	1477	1 ea.	Counters, Quebec Colony Counter, 100 scale (6-507)	41.24	41.24	asked - B/L 12/24 Nov. 1, 1947
		4 ea.	Platinum, loop	6.00	24.00	CANCELLED

SHIPMENTS OF MATERIALS - CONTINUED TO GRAVITAS

CONTRACT #	Serial #	Quantity ordered	MATERIAL	PLS TO Value	SHIPMENT
Fisher Scientific Co., Ltd.	1470	3.0 lbs.	Tubing, rubber, heavy, white, 1/2" exterior ID 507	\$ 40.28	Dimitri Donahay Dec. 6, 1947 3/4 1207
Chemical Lab. Supplies, Ltd.	1477	6 ea.	Thermally Separators, 6000 1/2" stop and glove (JC 507)	\$ 84.53	3MAY 8/1 1210 Dec. 24, 47
Gave and Co. Ltd.	1476	6 ea.	7 mmol, Beaker, Porcelain (not jacketed) (JC 507)	\$ 76.72	Not Yet Shipped A availability in 5469
Fisher Scientific Co. Ltd.	147	1 ea.	Oxide, white, 2207, Si C - MC (95.5% 1) #1 Debutolony Regulator (JC-507)	\$ 100.69	Dimitri Donahay Dec. 6, 1947 3/4 1207
Robert Barry & Co. Ltd.	1487	5000 gals.	Acetate JC 510	\$14,223.19	3,802 3/4 Gals. Nov. 14, 1947
				\$ 3,874.61	Gals Separates 3/4 1203 Nov. 14, 1947
			(Fire Loss Replacement JC 507)	\$ 842.47	Gals Not Yet Shipped Availability in 6147

REPORT OF PARTIAL REPORT - BOMBING OF WALL PAPER - LIST FOR REPAIR

CONTRACTOR	Serial #	Quantity	MATERIAL	745 20 Value	REMARKS
Example Corporation					
			Example Corporation Spare Parts & Supplies for the #107 Cartridge		
			Bearing 14	(DWS 779 Pk. 8) \$12.00	
10 pcs.					
2 pcs.			Terracotta Green	\$12.00	
2 pcs.			114 50 - graphite AS5	\$ 2.40	
24 pcs.			Ball Joint Bearings (model) A1	\$79.20	
24 pcs.			Ball Bottom (model) A1A	\$ 6.00	
6 pcs.			Ball (model) A1B	\$ 5.40	
10 pcs.			Three ring springs stainless steel #78	\$ 9.00	
1 each			Spring, stainless, stainless steel	\$228.00	
10 pcs.			Washers A1	\$ 18.00	
1 each			Dry spring #18 (stainless steel)	\$ 3.00	
4 each			Feed handle - stainlesssteel, # 75A	\$88.00	
24 pcs.			Feed base 18 - graphite #11	\$ 1.40	
4 each			Paralle cap - stainless steel A11	\$36.00	
1 each			Paralle body - stainless steel A1A	\$66.00	
10 pcs.			Ballot release #1A	\$ 2.40	
1 each			Brake assembly complete, Type 1, A17	\$16.00	
1 each			Bearing complete - # bearing	\$98.00	

100%
100%
100%

745 20

SHIPMENTS OF INSTRUMENTS EQUIPMENT - EMERGENCY SPARE PARTS LIST FOR BRASS

CONTRACTOR	Serial No.	Quantity Ordered	MATERIAL	7-13-58 Value	REMARKS
Taylor Instrument Company		1 each	Taylor Fullscope Recording Temperature controller, Blank case, face socket bottom connected, 24 hour spring wound clock, reverse adjustable sensitivity, 12" chart, 0-100%, Range 1-10%, over range extension, 9, each tube system 20 ft. mercury actuated capillary, 18/8 stainless steel bulb with rigid extension on stem of 18/8 stainless steel 1/2" long in clamping bulb, 18/8 stainless steel section including 3/4" thread hub nut for P.T. immersion; 100 charts, 12x, etc., with all accessories, complete (DPM 779 Pt 6)	1408.10	
		1 each	1228223 Same as item 1, except each tube system 16" and 18/8 stainless steel bulb with rigid extension stem of 18/8 stainless steel, 22 3/4" inclined bulb, (DPM 779 Pt 6)	1408.90	
		1 each	1228223 Same as item 1, except 1 pen and 1 center 1 system, 10" mercury actuated (blank) 18/8 stainless steel bulb with rigid extension of 18/8 stainless steel, 22 3/4" long including bulb. (DPM 779 Pt 6)	1354.95	
		3 each	118323 1/2" reducing valve (DPM 779 Pt 6)	0 21.00	
		3 each	NS 9817 Air Filter. (DPM 779 Pt 6)	0 19.50	
		3 each	90023 Taylor 1 inch Sturge valve, standard construction (DPM 779 Pt 6)	1111.50	
		2 each	90023 Taylor 2 inch Sturge valve, standard construction (DPM 779 Pt 6)	1166.00	

MADE U.S.A. 1957
Dec. 24/57

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STATEMENT OF PARTICULATED EQUIPMENT - ELEMENTS: SPARE PARTS LIST FOR DETAILS

CONTRACTOR	Quantity Required	MATERIAL	UNIT PRICE	TOTAL	REMARKS
Misc. 8741		Latent-leaf, Centrif-leaf, unless otherwise specified, Final Mounting Fittings Metering Tube: MIREP, beaded, 250 mm. small) Type of Seal & meter Direct reading) 7 least Specification- Stom: 80-52 of stainless steel. (LATER SPECIFICATION) Fluid AIR) Color & Transparency: Transparent; Specific Gravity: 1.04 Operating Pressure: Atmospheric; Operating Temperature: 70°F. MAX. FLOW: Maximum Flow: 20 CFM; Minimum flow 1.4 CFM. To in- clude outline drawings and pressure correction curves. (DPM 779 Pt. 4)		\$196.80	See Preceding Page
Messum-air Regulator Co.	2 each	2" 1/2" 1/2" Back Pressure Regulators, cast iron body, flanged ends, 7/8" 2500 Br. Ry. Standard 204 1/8" stainless steel tria. Grease sealed lubricator, 2 Grease #7 case, Adjustable range 6-20 PSI, Controlling air 0-30 CFM. (DPM 779 Pt. 3)			MIS N/A 1203 Dec. 24/47
Misc. 8736	3 each	1/2" 1/2" 1/2" Back Pressure Regulators, Cast iron body, screw ends, 204 1/8" stainless steel tria, Grease sealed lubricator, 2 Grease #9 Case, Adjustable range 2-7 PSI Valve open above 5 PSI, Controlling air 0-25 CFM. (DPM 779 Pt. 3)		\$482.00	
Robert B. Shaw Company	1 each	Standard Army Cup Dispensers (DPM 779 Pt. 2)		\$ 90.00	
Misc. 8737	6 each	26" Stainless Steel Magazine Tubes, 7/32" O.D., 0.017 wall thickness. (DPM 779 Pt. 2)		\$ 12.90	Revised Nov. 3, 1947 N/A 1203
Belmont Brown Machine Company	2,500 ea.	Stainless Steel Penetration Studs, .1125 O.D., .242 I.D., .400 Length (DPM 779 Pt. 1)		\$125.00	Chalmers Nov. 3, 1947 N/A 1203
Misc. 8739	790 lbs.	Forged (Boltless bracket) in brass suitable for export. (SE-501)		\$371.79	MIS N/A 1208 Dec. 20/47

RELEASE 3 PERIODIC EQUIPMENT - DOMESTIC SPARE PARTS LIST FOR SERIALS

CONTRACT #	Serial Quantity	MATERIAL	PAID TO	REMARKS
	Ordered		Value	
Fischer Scientific Co. Ltd.	1 each	Butts Filters, size 100 ml. (IC 579)	\$21.65	Not yet shipped Availability in 50L Not yet shipped Availability in 5000 Not yet shipped Availability in 500L
	1 each	Constant Temperature water type for Lab. easy with "Tread", size 100, 200 Pals (IC 579)	\$12.75	
	1 each	Lab Precipidity set-up as per sketch provided Fisher Scientific Co. by Mark, to include manifold connecting flasks and 2 traps/ set. (IC-579)	\$17.10	
Fischer Scientific Co. Ltd.	1 each	Barwood Pails, capacity 10 G.P.L., steel heated. (IC-579)	\$102.29	Not yet delivered

REPORT OF THE DIRECTOR OF THE CENTRAL INTELLIGENCE AGENCY

CONTRACT	QUANTITY	MATERIAL	UNIT	REMARKS
	12	1" Std. G.I. Pipe		
	12	3/4"		
	30	1/2"		
	30	1/4"		
	30	1/8"		
	6	1 1/2 x 1/4 x 3/4" Std. G.I. Pipe		
	10	1 1/2" Std. G.I. Pipe		
	50	1/2"		
	50	3/4"		
	100	1"		
	50	1 1/2" Std. G.I. Pipe		
	30	3/4"		
	24	1"		
	36	1 1/2"		
	12	1 1/2 x 1/4" Std. G.I. Pipe		
	7	1 1/2 x 1/4"		
	1	1 1/2 x 1" with Shoulder Flange		
	2	1 1/2" Std. G.I. Pipe F.F. & D.		
	1	6"		
	2	1 1/2" Std. G.I. Pipe F.F. & D.		
	1	8 x 6" Std. G.I. Pipe		
	1	1 1/2" Std. G.I. Tee F.F. & D.		
	2	6" Std. G.I. Tee F.F. & D.		
	14	1 x 1/2" Std. G.I. Tee F.F. & D.		
	14	1 x 1/2"		
	1	1 x 1/2"		
	4	1 x 1/2"		
	4	1 x 1/2"		
	24	1/2"		
	26	3/4"		
	1	1"		
	4	1"		

Manufactured by A.S. Smith, 7 January 1964

All items photo valves 1 & 2 & 3 air entry water locked

Quantity	Description	Unit	Value	Remarks
11	1" x 1/2" x 1/4" 304 stainless steel pipe valves	EA		} Multiyear, N2 of L21A, February 14, 1947
40	3/4" x 1/2" x 1/4" 304 stainless steel pipe valves	EA		
4	1" x 1/2" x 1/4" 304 stainless steel pipe valves	EA		
86	1" x 1/2" x 1/4" 304 stainless steel pipe valves	EA		
65	1" x 1/2" x 1/4" 304 stainless steel pipe valves	EA		
100	1" x 1/2" x 1/4" 304 stainless steel pipe valves	EA		
20	1" x 1/2" x 1/4" 304 stainless steel pipe valves	EA		
1	1" x 1/2" x 1/4" 304 stainless steel pipe valve	EA		
1	1" x 1/2" x 1/4" 304 stainless steel pipe valve	EA		
1	1" x 1/2" x 1/4" 304 stainless steel pipe valve	EA		
1	1" x 1/2" x 1/4" 304 stainless steel pipe valve	EA		

REPLENISHMENT WORK
 SUPPLIES OF PIPES AND FITTINGS FOR POLISHED MOUNTAIN 7: BRAIN

CONTRACT #	QUANTITY	SERIAL
	ORDER	

The following piping was shipped on the above-mentioned N/L 1202 January 9, 1948. Total Value \$428.21

1	210 ft.	1/2" Black Pipe, Threaded and Coupled
2	315 ft.	1/2" "
3	254 ft.	3/4" "
4	168 ft.	3/4" Galvnm.
5	480 ft.	1" "
6	105 ft.	1 1/2" Black
7	126 ft.	1 1/2" Galvnm.
8	65 ft.	4" Black Plain Ends
9	93 ft.	8" x 4 lbs. Black Pipe, Plain Ends
10	21 ft.	12" x 5 lbs.

The following piping was shipped on the above-mentioned N/L 1215 February 14, 1948. Total Value \$2,623.52

1	167 ft.	3/8" Black Pipe, Threaded and Coupled
2	280 ft.	1" "
3	210 ft.	1" Galvnm.
4	749 ft.	7 in. Stainless Steel N. K. Pipe, seamless 1" pipe
5	311 ft.	3" Black Pipe, Plain Ends
6	105 ft.	4" "
7	68 ft.	6" "
8	65 ft.	8" "

The following piping was shipped on the above-mentioned N/L 1215 February 14, 1948. Total Value \$122.46

1	147 ft.	3/8" Black, Pipe, Threaded and Coupled
2	210 ft.	1" "
3	210 ft.	1" Galvnm.
4	88 ft.	4" Black Plain Ends
5	51 ft.	6" "

The following piping is in New York to be loaded on the first available vessel. Total value \$211.46

1	210 ft.	1" Black Pipe, Threaded and Coupled
2	210 ft.	1" Galvnm. Pipe, Threaded and Coupled
3	105 ft.	2" "
4	111 ft.	4" Black Pipe, Plain Ends

REQUISITION FOR PIPE AND FITTINGS EQUIPMENT TO BE MAJOR

CONTRACTOR	ITEM	QUANTITY	MATERIAL
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The following items were delivered by February 29th, 1948 and will be shipped as soon as possible. This will constitute the last and final shipment of piping and fittings for the Penicillin Plant. Total value \$88,35

6.	210 ft.	1" Galvanized Pipe, Threaded and Coupled
10.	210 ft.	2"

BEST COPY

Available

I. PENICILLIN PLANT

Technical Information

- 1 UC-289-PA-3, CEB-B-1887/A1-1958

Canadian Ingersoll Rand Co., Ltd.
Sherbrooke, Quebec, Canada
Tbird Machine Company, South Walpole
Massachusetts

INSTRUCTIONS FOR INSTALLING AND OPERATING BIRD-YOUNG UNIVERSAL FILTER

- 2 UC-266-PA-1, CEB-B-1758/A1-3011

Canadian Westinghouse Co. Ltd.
Hamilton, Ontario, Canada

SQUIRREL CAGE INDUCTION MOTOR

- 1 Instruction Series # H-598
- 2 Descriptive Bulletin #11-200

- 3 UC-266-PA-1, CEB-B-1758/A1-3012

Leland Electric, Canada, Ltd.
73 Wickstead Road, Quelin, Ontario, Canada

THREE PHASE MOTORS

- 3 Blue prints # Z-706

- 4 UC-266-PA-1, CEB-B-1758/A1-3013

The Smart Turner Machine Co., Ltd.
191 Barton Street, Hamilton, Ontario Canada

- 5 UC-266-PA-1, CEB-B-1758/A1-3014

The Canadian Fairbanks Morse Co., Ltd.
266 Sparks Street, Ottawa, Ontario, Canada

CENTRIFUGAL PUMPS

Bulletin # 5530-2

- 6 UC-266-PA-1, CEB-B-1758/A1-3015 and Miscellaneous #740

Taylor Instrument Companies of Canada Ltd.
110 Church Street, Toronto, Ontario, Canada

RECORDING INSTRUMENTS

- 1 Reducing Valve Bulletin #92050
- 2 Temperature and Pressure Recorder's Bulletin #92071
- 3 Motorized Valves Bulletin #92171
- 4 Palascope Recording Controller Bulletin #92116

- 7 UC-266-PA-1, CEB-B-1758/A1-3016

Balmain and Williams Ltd.
18-22 Beak Avenue, West Toronto, Ontario, Canada

AGITATORS

Bulletin on Liquid Mixers

- 2 -

8 UA-1687, TPS-2733

General American Transportation Corporation
16 East 49th Street, New York 17, New York

TURBO-MIXERS

- 1 Lubricating Instruction
- 2 Assembly # 3 B Drive Unit, Prints # 27-281, 27-258, 10764-1

9 UC-266-PA-2, CEB-B-1758/A1-3057

Dominion Bridge Co., Ltd.
1139 Shaw Street, Toronto, Ontario, Canada

AUTOCLAVES

- 1 Markings
- 2 Sketch # 1
- 3 Drawings # 1, 2, 3.

10 UC-266-PA-3, CEB-B-1758/A1-3060

English Electric Company of Canada, Ltd.
St. Catharines, Ontario, Canada

SQUIRREL CAGE MOTORS

Bulletin # 102-A and Form DPH-32-D

11 UC-289-PA-1, CEB-B-1887/A1-3018

Richardson Agencies,
454 King Street West, Toronto, Ontario, Canada
(The Pfandler Company, Elyria, Ohio, USA)

TANKS AND GLASS LINED EQUIPMENT

- 1 Blueprint # C 34290-1
- 2 " # C 34319-1
- 3 " # C 34300-1
- 4 " # C 34287-1
- 5 " # C 34321-1
- 6 " # C 34390-1
- 7 " # C 30768
- 8 " # D 34301-1
- 9 Bulletin # 834

12 UC-289-PA-2, CEB-B-1887/A1-3019 and Miscellaneous # 8743

Whiting Corporation, Ltd.
45 Richmond Street, Toronto 1, Ontario, Canada
(Sharples Corporation, 23rd and Westmoreland Street,
Philadelphia 40, Pennsylvania)

SHARPLES SUPERCENTRIFUGE

- 1 Instructions for Supercentrifuge with blueprints # C-539 B and # 529 B
- 2 Instructions for Laboratory Centrifuge

13 GP-3032

F. J. Stebbins Machine Company
Taber Road, Gray P.O., Philadelphia 20, Pennsylvania

- 3 -

VACUUM GAUGE-MOLECO TIPS

Booklet # WG-3M-3/46

14 UA-3059, TPS-740

Wheelco Instrument Company
Harrison and Peoria Streets, Chicago 7, Illinois

THERMOSTAT CONTROLS

- 1 Instructions for Wheelco Instruments Model 5241
- 2 Price List # G 203-2
- 3 Bulletin # G 203-2
- 4 Instruction Sheet # 5527
- 5 " " # 5459 A
- 6 " " # 5307
- 7 " " # 5308
- 8 " " # 5046 A
- 9 " " # 5446 B
- 10 " " # 5373 A
- 11 " " # 5562
- 12 " " # 5506 A

15 UA-3024, TPS-633

Gamma Instrument Company, Inc
95 Madison Avenue, New York 16, New York

pH METERS

- 1 Battery Connections for Gamma pH Automat
- 2 Additional Instructions for Gamma pH Meters
- 3 Directions for pH Meter

16 Miscellaneous 8814

Paramount Rubber Company
10401 Northlawn Avenue, Detroit 4, Michigan

AIR FILTERS

One Blueprint

17 Miscellaneous 8741 and UC-283-PA-2, CEB-B-1887/A1-3025

Fischer and Porter Company
Hatboro, Pennsylvania

FLOWMETERS AND ROTAMETERS

- 1 Flowrator, Series 700, Catalog Section 25-E
- 2 Dimension Chart # G-17531-0
- 3 Dimension Drawing for Rotameters # G-16906-1
- 4 " " " " # S-12206-2
- 5 Instruction Manual for Flowrator, Bulletin # 26-B

18 Miscellaneous # 8738

Mason-Neilan Regulator Company
1190 Adams Street, Boston 24, Massachusetts

- 4 -

BACK PRESSURE REGULATORS

- 1 Instructions Bulletin # 516
- 2 Blueprint # C-371-B-4
- 3 " " # C-371-A 3

19 Miscellaneous # 8777

Robert D. Egan
Bloomfield, Connecticut

ASSAY CUP DISPENSERS

Special Reprint from SCIENCE, September 20, 1946, Vol. 104, page 275
"Dropping Device for Cylinder Plate Assay of Penicillin"

20 UC-507, C.A-17-70/1470

F. J. Stokes Machine Company
5934 Taber Road, Olney F.O., Philadelphia 20, Pennsylvania

STORES ELECTRIC WATER STILL MODEL, INSTRUCTIONS FOR INSTALLING AND OPERATING

21 UC-507, C.A-17-70/1470

W. K. Welch Scientific Company
1515 Sedgwick Street, Chicago 10, Illinois

VACUUM DUD-SEAL PUMPS, COMPLETE SERIES:

II. PENICILLIN PLANT

Lacking Technical Information

- 1 UC-289-FA-3, CKB-B-1887/A1-2958

Canadian Ingersoll Rand Co. Ltd.
Sherbrooke, Quebec, Canada
(Bird-Young Filters: Bird Machine Company, South Walpole, Massachusetts)

BIRD-YOUNG FILTERS

Arrangement Drawings and Duplicate Parts List To be forwarded

- 2 UC-266-FA-1, CKB-B-1758/A1-2999

Canadian Ingersoll Rand Co. Ltd.
Sherbrooke, Quebec, Canada

- 3 UC-266-FA-3, CKB-B-1758/A1-3059

Canadian Ice Machine Company
65 Valliers Street, Toronto, Ontario, Canada

CANADIAN ICE REFRIGERATOR UNITS

To be forwarded

- 4 UC-289-FA-2, CKB-B-1807/A1-3024

J. P. Devine Mfg. Co., H. K. Foster Division
Oliver Building, Pittsburgh, Pennsylvania

DEVINE VACUUM CHAMBER DRIERS

Included

- 5 UC-289-FA-2, CKB-B-1887/A1-3020

Canadian Laboratory Supplies Ltd.,
32 Grosville Street, Toronto, Ontario, Canada

OIL TESTING CENTRIFUGE

No reply received to request
for technical data.

- 6 UC-289-FA-3, CKB-B-1887/A1-3022

F. S. B. Howard and Co., Ltd.
661 New Birks Building, Montreal 2, Canada

ELIOT STEAM ELECTORS

Canadian Commercial Corporation
trying to get information. Will
be forwarded.

- 7 UA-2855, TS-1256

L. & M. Industries and Trading Corporation
307 Riverside Drive, New York, New York

COLD STORAGE UNITS

No reply received.

- 8 UA-2855, TS-1257

Harold Bator
6703 Atlantic Avenue, Atlantic City, New Jersey

COLD STORAGE UNITS

- 2 -

9 MA-3855, TS-1258

John Anson Air Conditioning Co., Inc.,
406 South Sixth Avenue, Mt. Vernon, New York.

REFRIGERATING UNITS

No reply received.

10. UC-364/812

Richardson Agencies
454 King Street, Toronto, Ontario, Canada
(The West Company, Phoenixville, Pennsylvania)

CAPPING MACHINES

No reply received.

SHIPMENT OF PENICILLIN EQUIPMENT TO BYELORUSSIA

C.E.B. B-1758/UC-266

CONTRACTOR	Serial Quantity # Ordered	MATERIAL	FAS US Value	SHIPMENT
Canadian Ingersoll Rand Co. Ltd.	AL-2999 1	1x11 Canadian Ingersoll Rand Class ES 1-ML Class 2 construction air compressors complete with accessories (price incl.), 1 ea. Filters, Air Inlet) These two items not included in shipment on Askold. 1 " Snubbers, Intake) 1 " Receiver, Air, 42" x 10" 1 " After Coolers, 88 HM-2, with Safety Valves 1 " Motor, 60 H.P., 380/220V, 3 phase, 50 cycle 1 " Compensators, Starting, for above 60 H.P. motor.	\$8,908.65	Askold May 31, 1947 B/L 1238
	PA-1 1	1x7 Canadian Ingersoll Class ES 1 pump and accessories (price inclusive)		
	1 ea.	Motor, 20 H.P., 380/220V, 3 phase, 50 cycle including starting compensators.		
	1 "	Bases, Sliding, for above motor.		
Canadian Westinghouse Co. Ltd.	AL-3011 2 PA-1	15 h.p., 3 phase, 50 cycle, 1500 RPM, 380/220V, 40°C rise, protected H.S. Squirrel cage induction motors with normal starting torque and low starting current and 10 only bases for motors complete with starters.	\$ 496.05	Cheluskinks Oct. 3, 1947 B/L 1203
Leland Electric Canada Ltd.	AL-3012 3 PA-1	Motors, 3/4 or 1 H.P. 380/220V, 3 phase, 50 cycle.	\$ 122.00	Frederick Engles Apr. 22, '47-B/11229
The Smart Turner Machine Co. Ltd.	AL-3013 1 PA-1	1x1 LDU side suction centrifugal pumps, standard fitted with open type iron impeller, ball bearings, direct connected to 1 1/2 h.p. 3 phase, 50 cycle, 220/380V. 1500 RPM standard insulated protected type motor, together with manual starting switch having thermal overload protection.	\$ 157.77	Svesaples July 19, 1947 B/L 1215

ON
C.E.B. B-1758/UC-266

Approved For Release 2002/07/24 : CIA-RDP80-00926A003700020008-3

CONTRACTOR	Serial Quantity by No. Ordered	MATERIAL	7AS US Value	SHIPMENT
The Canadian Fairbanks Morse Co.	AI-3014 2	Pairbanks-Morse 1 1/2" Figure 5531, all iron centrifugal pumps mounted on base and direct connected through flexible couplings to and including an Electric Temper & Equipment Co. 3 h.p., 3 phase, 50 cycle, 380/220V, 1500 RPM., 50°C rise, standard protected type electric motor.		Svesaples July 19, 1947 B/L 1216
	AI-3014 1	Fairbanks-Morse 1", Figure 5531, all iron centrifugal pump mounted on base and direct connected through flexible coupling to and including an Electric Temper & Equipment Co. 1 1/2 h.p., 3 phase, 50 cycle, 380/220V, 1500 RPM, 50°C rise, standard protected type electric motor.	\$ 833.96	
Taylor Instrument Companies of Canada, Ltd.	AI-3015 1 PA-1	Thermometer, Instrument Recording, #76JH223 Taylor, 2 pen Record, with left and right tube system, 20' leads, with a 33" rigid 18-8/8 stem and under connection assembly. Range of instrument, C-225°F., with over-range protection D chart No. OP-136		Alfred Victory Jan. 3, 1947 B/L 6
	1	Thermometer, Recording, 2 pen, chart (same as above except for 10' leads & 22-3/4" stem).	\$ 654.85	
	1	Thermometer, Recording, 1 pen, (same as above except for 10' leads & 22-3/4" stem).		
Delamere & Williams Ltd.	AI-3016 2 PA-1	Type "FE" Agitators having 1/2 h.p., 380/220V, 3 phase, 50 cycle, 1500 RPM open protected motors stainless steel shaft, and propeller for use in tank 45" dia. x 4 ft. deep.	\$ 328.86	Svesaples July 19, 1947 B/L 1217
The Toronto Iron Works, Ltd.	AI-3055 2 PA-1	Tanks, 7' x 15" Tanks, 40" dia. x 3' 2 5/8" main steel complete with reducer motor coupling and slow coupling 90 RPM	\$6,905.02	Baku May, 1947 B/L 1221
General American Transportation Corp.	TPS-2733 2	Turbo-Mixers, impellers, undruplex, for agitation without motors. (UA1687)	\$1,887.60	Baku May '47-B/L 1212
Anti-Biotics, USDA, Food & Drug	1 1	Sample pure penicillin G crystal form 1667 Sample pure penicillin K crystal form 85% (non-standard)	Turned Over to Trainees	

SHIPMENT OF PENICILLIN EQUIPMENT TO BYELORUSSIA

C.E.S. B-1758/UC-266

CONTRACTOR	Serial Quantity No. Ordered	MATERIAL	FAS US Yards	SHIPMENT
Anti-Biotics, USDA, Food & Drug (cont'd)	1	Sample standard <i>Staphylococcus aureus</i> 209P		
	1	Sample <i>Bacillus Subtilis</i> S-201-220		
	1	Sample penicillin <i>Chrysogenum</i> 1984/ N22		
	1	Sample penicillin <i>notatum</i> 832		
	1	Sample <i>Bacillus Bovis Dubos</i> 4541		
Northern Regional Research Lab.	1	Sample NRRL 1612		
	1	Sample L-1612 in soil		
	1	Sample culture E		
Madison Wisconsin	1	Sample culture Q176		
	1	Sample culture Q176		
Pendoll Boiler Ltd.	AL-3017 1	only 60" dia. by 15'-0" long storage tanks welded construction made of 3/16" steel plate in shell 1/4" flatheads, with 16" bolted manhole four 2" screwed outlets and two 2" in each head. Painted two shop coats of paint outside only, all outlets to be plugged for shipping. \$ 270.88		American Victory Dec. 13, 1946 B/L 26
Toronto Coppersmithing Co., Ltd.	AL-3056 1 PA-2	only 50 gal. SS covered tanks with Conical Bottom & SS cooling coil. (This tank shipped without agitator & thermometer) \$ 434.36		American Victory Dec. 13, 1946 B/L 28
		The agitator & thermometer for above tanks was shipped with 330 gal. Tanks - Contr. AL-3107		Frederick Engles Apr. 22, 1947 B/L 1252
	AL-3056 120	only Trays (Aluminum or Copper construction) with individual compartments like 400 crates for holding vials during freezing and drying. \$1,443.92		American Victory Dec. 13, 1946 B/L 27

SHIPMENT OF PENICILLIN EQUIPMENT TO BYEL-RUSSIA

ON
C. B. B-1758/UC-256

CONTRACTOR	Serial Quantity # ORDERED	MATERIAL	FAS US Value	SHIPMENT
Taylor Instrument Co.	AL-3058 2 only	Single Pen Taylor Recording Thermometers Chart No OP 3502 Range 0-100°F 10' lead 18-8 SS Accuratus Tubing stem length 24" with one Trico Air Filter and one air reducing valve #5 and one Taylor Mono Steel Even Action Diaphragm valve.		American Victory March 25, 1947 B/L 1
	AL-3058 4 only	Single Pen Taylor Recording Thermometers Chart No OP 3502, Range 0-100°F 10', lead, 18-8 SS Accuratus tubing, stem length 20" with one Trico Air Filter and one air reducing valve #5 and one Taylor Mono Steel Even Action Diaphragm valve.	\$1,922.32	
Dominion Bridge Co., Ltd.	PA-2 4 only	Taylor Gauge Thermometers		
	AL-3057 2 only	Autoclaves for steam sterilizing of Penicillin Vials, diameter 30", length 7'.	\$1,691.80	American Victory Dec. 13, 1946 B/L 29
Canadian Ice Machine Co.	AL-3059 1 only	Canadian Ice Refrigerator Units (Compressor & Piping)	\$ 541.76	Chernikov Nov. 25, 1947 B/L 1202
English Electric Company, of Canada Ltd.	AL-3060 2 only PA-3	Squirrel Cage Motors, Frame 326, 15 h.p., 1500 RPM 220/360V 3 phase, 50 cycle, 50 D507. C. Rise, continuous rated, protected type, with antifriction bearings and with Sliding Base but without pulley.	\$ 414.25	Svesoples July 19, 1947 B/L 1215
United Steel Co., Ltd.	AL-3108 10 4	Belt Drive, Belt, Dodge V., for 15 h.p. motor, belt and pulley to fit on motor Sheaves	\$ 180.53	Not Yet Shipped Availability UN 6138
Toronto Coppermithing Co. Ltd.	AL-3107 2 PA-1	Can Corn Oil. 10 gal., complete with gauge and safety valve	\$ 693.83	Frederick Engles April 22, 1947 B/L 1252
Toronto Coppermithing Co. Ltd.	AL-3107 1	Tank, 350 U.S. Gallon Stainless Steel with Coil	\$ 570.27	

SHIPMENT OF FERTILIZER EQUIPMENT TO BYEL RUSSIA
C.S.F. - RICE/VE 289/AY

CONTRACTOR	Serial Quantity by No (and rod)	GENERAL	FAS US Value	SHIPMENT
Richardson Agencies, Ltd.	AI-3018 1 only	Tanks, closed, 200 U.S. gal. 42" IDx36" jacketed glass lined with insulation and steel sheathing, with agitator and 1/4 h.p. explosion proof motor and drive.	\$1,722.27	Cosur d'Alene Victory Jan. 24, 1947 B/L 40
"	PA-1 3 only	Tanks, 88, 400 U.S. gal. 42" x 60" with agitator and 1 h.p. explosion proof motor	\$9,036.01	Ashold May 27, 1947 B/L 1226
"	PA-1 1 unit	Distillation Unit, Glass Lined, Pfendler, consisting of 50 gallon glass lined kettle, Pfendler #551449, 50 gallon glass lined receiver, Pfendler #551451, and 88 tubular-condenser, Pfendler #6-51450.	\$1,727.15	Cosur d'Alene Victory Jan. 24, 1947 B/L 40
"	PA-1 2 only	Tanks, mrx. 50 U.S. gallon glass lined, jacketed 24" ID x 29" insulated, steel sheath, with agitator and 1 h.p. explosion proof motor	\$3,168.52	Ashold May 27, 1947 B/L1228
"	PA-1 3 only	Tanks, Buffer, 200 gallon, 50, 40" x 38-5/8" with agitator and 3/4 h.p. explosion proof motor revised design of tank bottom and add baffles.	\$6,329.57	Rosita March 15, 1947 B/L 1210
"	PA-1 1 only	Tanks, 100 U.S. gallon, glass lined, jacketed, insulated and steel sheathed with agitator, baffle and 3/4 h.p. explosion proof motor.	\$1,824.01	Vladivostok May 15, 1947 B/L 1229
"	PA-1 2 only	Tanks, 50 U.S. gallon, glass lined	\$3,203.60	General Chernobrovy June 30, 1947 B/L1224
Milling Corp., Ltd.	AI-3019 4	Sharples 162 Super Centrifuge Vapour Tight Model Pressure-tite belt drive with explosion-proof motors, 6 separating bowls, 1 clarifying bowl, all 88	\$16,919.34	Ashold May 27, 1947 B/L 1226
	PA-2 1 set	Sharples Laboratory Model Centrifuge direct drive 88 bowls 1 clarifying, 2 separating		

SHIPMENT OF PENICILLIN EQUIPMENT TO BYELORUSSIA
C.R.B. - B-1897/UC 299/FF

CONTRACTOR	Serial Quantity # Ordered	MATERIAL	FAB US Value	SHIPMENT
Fischer and Porter Company	AL-2025	1 only Breth Rotameters 1 only Acetate Rotameters 1 only Phosphoric Acid Rotameters 1 only Rotameters for water	\$ 1,120.39	Crosby S. Hayes Dec. 23, 1946 B/L 2
W.A. Coyle, J.P. Devine Mfg. Co. Division, R.K. Parker Co., Inc.	AL-3024 PA-2	5 only Special No. 1A Devine Vacuum Chamber Driers, each Cabinet to have 5 or 6 shelves.	\$ 586.08	Chelunkinots Oct. 3, 1947 B/L 1207
Canadian Laboratory Supply	AL-3020	1 only International size 2 oil testing centrifuge with 267 A Motor head	\$ 512.10	Svrosaples July 19, 1947 B/L 121A
Canadian Laboratory Supply	AL-3020	2 only Model 4C SS 50-10 Brewer Automatic pipetting machines	\$ 560.87	American Victory Dec. 13, 1946 B/L 25
F.S.B. Howard & Co., Ltd. PA-2	AL-3022	1 only Elliot four-stage steam with intercondenser operating 115 lb. steam pressure		Bahn May 21, 1947 B/L 301
		1 only Elliot three-stage steam ejector for use in starting operations.	\$5,050.07	
John Inglis Co., Ltd. AL-3109 PA-3	AL-3109 PA-3	1 set Pump, set, consisting of: 1 each Acetate Piz. 1 each Breth Pump 2 each Strong Acetate Transfer Pumps 1 each Spout Acetate Transfer Pumps 1 each Wash Bottle Solvent Filling Pumps 1 each Chloroform pumps 1 each Spare pumps (10 gpm 25-30 ft. head gear pumps, 3/4 H.P. motors explosion proof SS gears, cast stl casings or equivalent.	\$2,872.00	Chelunkinots Oct. 3, 1947 B/L 1203
	AL-3109 PA-3	1 set Acid pump gear pump, 10 gpm., 30' head, hard rubber 3/4 h.p. explosion-proof.		
Canadian Ingersoll Rand Co. Ltd. AL-2958 PA-3	AL-2958 PA-3	1 4 ft. diameter by 2 ft face Bird Young Universal Filters all in accordance with proposal M-9913 Exp. 1773 of March 7	\$7,258.40	American Victory Dec. 13, 1946 B/L 12

SHIPMENT OF PENICILLIN EQUIPMENT TO HONGKONG
 C.E.D. - B-1887/OC 289/77

CONTRACTOR	Serial No	Quantity Ordered	MATERIAL	FAS US Value	SHIPMENT
Richardson Agencies, Ltd.	AL-3045 PA-4	3	6x66" vertical Pfendler glass-lined steel storage tanks furnished with 2" of cork insulation completely covered with a 3/16" mesh and supporting legs, 2-3" openings and 1-2" opening. \$5,566.97		Cosur D'Alene Victory Jan. 24, 1947 B/L 39
"	AL-3045	1	Pfendler Heat Exchangers (fixed tube sheet as on pages 8 & 9 Pfendler Condenser Manual No. 837, type 304 stainless on the tube side and plain carbon steel on the shell side. Dimensions "J" for broth 2" flanged, for coolant circulation 3" flanged. Tubes are type 304 stainless 66 c/4" OD 18 gauge 12' 0" long. RS tube sheets 3/4" thick design pressure 75 lbs. 1 sq. in. both shell and tube sides \$1,740.98		Ankora May 27, 1947 B/L 1287
Chester A. Olson Co. Washington	CP 3999	5	Pumps, 3 to 10 gpm, operating at a total working head of 20', 1 1/4" - 4" electric motor, fitted for 1-1/4" section and 1" discharge powered by a 50 cycle, 220/440 V. 2 pole electric motor. \$ 418.00		Christopher Geddes May 19, 1947 B/L O-11
Harold Bate	TS 1257	3	Cold Storage Unit complete. Each unit to be complete with two self-contained refrigerating units and each refrigerating unit to have individual compressor, 3 h.p., 3 phase, 220V, 50 or 60 cycle electric motor, air cooled condenser, blower type water defrosting evaporator. Each storage compartment is to have two swinging doors. The cold storage box approx. dimensions, 12'10" by 24'4" by 7'6", to be made up of sections. The refrigerating unit should be fully self contained and manufactured in such a way it would be possible to use them singly or in pairs. Units should be controlled from an integral control panel. Total capacity approx. 2340 cubic ft. with spare parts. (UA 2855)		(3 Refrigerator units) Christopher Geddes May 19, 1947 B/L O-13 (3 refrigerating cabinets for above units shortshipped from the Christopher Geddes were loaded on the James Ford Rhodes to Marseille July 2, 1947. These cabinets were transhipped at Marseille to the American Victory for Constanza Sept. 11th & on arrival in Constanza were again transhipped to Odessa via Kyriakos Ltd. \$6,435.00 Vessel.)
			1 set of spare parts	\$ 22.00	General Chornobovskiy June 30, 1947 B/L 1204

SHIPMENT OF PENICILLIN MATERIALS TO BYELORUSSIA
C.S.B. B-1887/UC 289/RT

CONTRACTOR	Serial Quantity # Ordered	MATERIAL	FAS US Value	SHIPMENT
John Arman Air Conditioning Co.,	78-1258	8 Refrigerating unit, self contained, portable, complete with carrier compressor, 3 h.p. 220V. 50 or 60 cycle electric motor, air cooled condenser, blower type water defrosting evaporator. B.T.U. capacity with Freon: 100 degree Ambient at 25 degree refrigerant - 19,000 B.T.U./hr. 100 degree Ambient at 10 degree refrigerant 8,950 B.T.U./hr. unit furnished should be same unit used with storage box above, with spare parts. (UA 2855)	\$6,116.00	Vladivostok May 15, 1947 B/L 1218
V. J. Stokes Co.	CP-3492	5 Vacuum Gauge, McLeod	\$ 400.00	Michael Frunse Feb. 25/47 n/L 1243
The West Company Philadelphia, Pa.	Tps 5355 P&A 2362	1,000,000 Stoppers, soft rubber, to fit 20cc penicillin bottles; #87 rubber stock composition, paraffined; to be stopper 8-29. (UA-191/P91-L23-6)	\$4,255.00	Sewasple July 19, 1947
The West Company Phoenixville, Pa. (Richardson Agencies)	812	1 Machine, capping, semi-automatic with ph.p. 60 cycle, 110/220 V. AC motor; turret type Westosper designed to cap & crimp 20 mm size, triple seal aluminum caps of penicillin bottles, at the rate of 60 to 100 per min. e. (UC 364)		Not Yet Shipped Availability UN 5065
	812	500,000 triple Seal Aluminum Caps	\$4,720.17	
		500,000 Single Seal Aluminum Caps		
Aluminum Co. of America	Tps 5465 P&A 2223	1,800,000 Closures, aluminum, 20 mm. size fitting # 8-29 rubber stoppers for penicillin bottles 3 piece combination steriscap, Aluminum Co. of America # 20-120 (UA-191/P91-L23-6)	\$5,030.63	General Chernakovsky June 30, 1947 B/L 304
Wharton Glass Co.	TPS 5123	6,957 gross Vial, glass, borosilicate, preclinical fill 20cc fill to base of neck; 24cc, O.D. 32mm, height 58mm. I.D. of neck 12mm. To be USP type 1 glassware Model # 5-205. (UA-191/P91-L23 5)	\$23,231.30	Baku May 21, 1947 B/L 334

SHIPMENT OF PENICILLIN MATERIALS TO BIELORUSSIA

CONTRACTOR	Serial Quantity by No. Ordered	MATERIAL	FAS US Value	SHIPMENT
Corn Products Refining Co.	Tps 542 74-207 lbs. PMA 2211	Steep water. Available from Corn Products Refining Co. 17 Battery Place, N.Y. (UA-191/P88-D40-21, 190 tons)	\$3,277.35	Bahn May 21, 1947 B/L 335
	38 short tons	Same as above	\$2,776.00	Cancelled
Mallinckrodt Chem. Works	Tps 6026 825 lbs. PMA 2229	Potassium dihydrogen phosphate (monobasic). Available from Mallinckrodt Chem. Works St. Louis. No. (UA-191/P88-D40-21)	\$ 326.70	General Obermakhovskiy June 30, 1947 B/L 304
Western Condensing Co.	Tps 6176 117.800 lbs. PMA 2028	Lactose (milk sugar) Commercial grade in 100 lb. drums (UA-191/P88-D40-2A)	\$23,972.30	American Victory March 24, 1947 B/L 33
Swift & Company	Tps 6312 11.973 lbs	Penicillin deforming agent (UA-2768)	\$5,181.53	Vladivostok May 15, 1947 B/L 1253

PMA'd Ort Ef Toledo

Out of Toledo	PMA 2043 576 pairs	Dish, Petri, top 100 x 15 mm bottom 95 x 15 mm free	} } } } } }
Out of Toledo	200 lbs.	Phenol, USP, fused (acid carbolic)	
Out of Toledo	200 lbs.	Magnesium Sulphate crystal	

Bahn
May 12, 1947
B/L 330

\$36.14

SHIPMENT OF PENICILLIN MATERIALS TO BYELORUSSIA
(Penicillin Drugs)

CONTRACTOR	SERIAL QUANTITY No. Ordered	MATERIAL	FAS US Value	SHIPMENT
J. T. Baker Chem. Co.	TS 437 P/A 2479	16,900 lbs. Chloroform, technical, avail. from Dov Chem. Co. MIlandi, Michigan (UA 191/788-040-21)	\$3,160.30	General Chernakovsky June 30, 1947 B/L 1225
Robert Berry & Co. Ltd.	22,320 lbs.	Phosphoric Acid, 85% USP, syrupy. Not available from American Agri.Chem.(UC-517)-Merck	\$6,023.06	Baku Dec. 24, 1947 B/L 1231
British Govt. Contract (S.A.O)	PG 383	1,000 lbs. Acid Phenylacetic (From England)	\$1,108.25	Beloostrov Oct. 11, 1947 B/L 51
J.J. Baker Chem. Co.	TS 1070	400 lbs. Sodium Hydroxide C,P, reagent, sticks, UA-3041	\$ 132.00	Sveepsles - B/L 1204 July 19, 1947
Robert Berry & Co. Ltd.	14,400 lbs.	Sodium Hydroxide, technical flakes, 100# pkg. (UC-517)	\$2,900.00	Not Yet Shipped Availability III 6025C
F.M.A. Export Corp N.Y., N.Y.	CP 3952	9 lbs. Acid Sulphuric C.P. concentrated, C.P. CP	\$ 1.40	Frederick Engels Apr. 22, 1947 B/L 1288
Difco Lab., Inc.	TS 1071 8106 grams	Cystine L - Cystin - UA-3041	\$ 74.80	Abnold - B/L 1280 May 27, 1947
Ingra & Bell Ltd.	UC 517	2 1/2 lbs. Trypsin 1.75 Penicreas substance	\$ 20.00	Not Yet Shipped Availability III 5672
Difco Labs., Inc.	TS-1071	1° Kilos Pancreatic Extract (dried pancreas) UA-3041	\$ 242.00	Abnold - B/L 1280 May 27, 1947
Robert Berry & Co., Ltd.	1 lb.	Clarease (Diastase) USP II (UC-517)	\$ 5.27	Not Yet Shipped Availability III 5943
New Zealand Govt. Contract	VS 3/6	2 long tons Lactose B.P. Standard Shipment made from New Zealand during Jan- 1947	\$ 704.00	
Mallinckrodt Chem. Works	CP 3951	2 1/2 lbs. Ferric Ferrate C.p.	\$ 6.68	Abnold - B/L IR 1306 May 28, 1947
Difco Lab., Inc.	TS 1071	18 lbs. Beef extract UA-3041	\$ 56.50	Abnold - B/L 1280 May 27, 1947

SHIPMENT OF PENICILLIN MATERIALS TO BYELORUSSIA

CONTRACTOR	Serial Quantity by # Ordered	MATERIAL	FAS US Value	SHIPMENT
M.Va. Pulp & Paper Company	TS-1069 650 lbs.	Penicillin Drugs (Gentid) Nuchar G 199 H UA-3041	\$ 193.05	General Chemabobovsk June 30, 1947 B/L 1210
A. J. Baker Chem. Company	TS-1070 1,260 lbs.	Sodium Sulphate, anhydrous C.P. UA-3041	\$ 352.80	Cancelled
Cave & Co. Ltd.	217 600 lbs.	Glass wool, lead free and borax free, fine .0002 to .0003 in. Pyrex high stability. (UC-507)	\$1,093.25	Not Yet Shipped Availability UN 5681
Czechoslovakian Govt. Contract (I.R.O.)	PC 354 4,719 Tons	Sodium nitrate USP VIII 0.3%	\$2,808.91	Shipped from Prague to Minsk-June 30, 1947
Ingram & Bell Ltd.	UC 517 5,200 lbs.	Calcium Carbonate	\$ 249.34	Not Yet Shipped Availability UN 5681
P.M.R. Export Corp., N.Y.	CP-3932 40 oss.	Acid, Para-aminobenzoic CP	\$ 82.25	Frederick Engels Apr. 22, 1947 B/L 128
Ingram & Bell Ltd.	50 grams	Crystal Violet 85% Bacto (UC-517)	\$ 2.17	Not Yet Shipped Availability UN 5681
Difco Lab., Inc.	TS-1071 50 lbs.-	Agar, granular or shreds, USP (UA-3041)	\$ 302.50	Aschold-B/L 1280 May 27, 1947
Ingram & Bell, Ltd.	1.100 gms.	Sodium Thyoglycolate (UC-517)	\$ 38.71	Not Yet Shipped Availability UN 5681
	22 lbs.	Casein powder	\$ 16.50	Cancelled
	20 oss.	Oil Immersion cedarwood, USP reagent	7.00	
	25 lbs.	Sodium hypochlorite Solution USP	8.75	
Case & Co. Ltd.	1615	2 each Liquid Air Trap Pyrex, o.d. 29mm dia. of connecting tube - 20 mm (UC-517)	\$2.20	Not Yet Shipped Availability UN 5681
Standard Oil Co. of N.J.	CP-3954	5 gals Bearing lubricating oil. Pure paraffin odl. Viscosity 100 - 125 SSU 100	2.50	Aschold - B/L 1236 May 27, 1947

SHIPMENT OF PENICILLIN MATERIALS TO UZBEKRUSSIA

CONTRACTOR	Serial No.	Quantity Ordered	MATERIAL	PA. US Value	SHIPMENT
Wheelco Instrument Co.	TS-740	5 yds.	Plastic tubing (Vinylite) O.D. 1 1/16" wall	\$ 15.00	Cancelled
		2 ea.	Controls, thermostat, 500-1007, capacity 110 C.F. (UA-3059)	\$ 558.78	Aakold-B/L 1269 May 27, 1947
Sharples Corporation Philadelphia, Pa.	CP-3664	40 ea.	Belts, Sharples Super Centrifuge (CP-MO-719)	\$ 120.00	American Victory Mar., 24/1947 B/L 15
Gamma Instrument Co., Inc.	TS-635	2 sets	P.H. Motors, Lab. Model. Gamma Automat with Accessories (UA-3024)	\$ 892.98	Aakold - B/L 1272 May 27, 1947
Canadian Ingersoll-Rand Co. Ltd.		6 ea.	Carbon rings. Replace, airts for 14x11 Ingersoll Rand Class ES-1-4L Class 2 construction air compressors (UC-517)	\$ 139.53	Not Yet Shipped Availability UN 5695
Cave & Co. Ltd.	1470	1 ea.	Water distillation apparatus, 3 to 5 O.D.H. (UC-507)	\$ 297.29	Not Yet Shipped Availability UN 5470
		25 ea.	Sheets, stainless steel 2'x8' (For Byelo. Ukraine only)	Cancelled	
		5 ea.	Cylinder Frog 12	\$100.000	
Fisher Scientific Co., Ltd.	1476	20 dos.	Pipettes, Serological 5cc ea., 1/10 graduation	\$ 110.48	Dimitri Donakoy Dec. 6, 1947 B/L 1208
Fisher Scientific Co., Ltd.	1476	14 ea.	Flasks, volumetric, 50cc ea. ground glass (UC 507)	14.59	
Cave & Co., Ltd.	1470	1 ea.	Pump, oil vacuum, canco, Ryvao-Vac. 1/2 h.p. motor 220V 50 cycle, (UC 507)		Not Yet Shipped Availability UN 6151
Cave & Co., Ltd.	1470	1 ea.	Pump, oil vacuum onucc mega, Vac. w/motor 220V, 50 cycle. (UC-507)	\$ 227.76	
Fisher Scientific Co., Ltd.	1476	1 ea.	Filters, pressure Seife Biological 10 liter capacity each with 1 gross filter discs. (UC-507)	\$ 323.13	Dimitri Donakoy Dec. 6, 1947 B/L 1208
Canadian Lab. Supplies Ltd.	1477	1 ea.	Counters, Quobco Colony Genco, MM scale (UC 507)	41.24	Rossie-B/L 1215 Nov. 1, 1947

SHIPMENT OF PENICILLIN MATERIALS TO BYELORUSSIA

CONTRACTOR	Serial Quantity # Ordered	MATERIAL	FAS US Value	SHIPMENT
	4 each.	Platinum, Loop	\$ 6.00	Cancelled
Fisher Scientific Co., Ltd.	1476	300 ft. Tubing rubber, heavy, wall. 1/4" exterior UC 507	\$ 40.28	Dimitri Donakoy Dec. 6, 1947 B/L 1208
Canadian Lab. Supplies. Ltd.	1477	6 ea. Funnels, Separator, 600.0 cc. stoppered globe (UC 507)	\$ 84.53	Not Yet Shipped Availability UN 5918
Cave and Co. Ltd.	1470	6 ea. Funnel, buchner, Porcelain (not jacketed) (UC 507)	\$ 78.71	Not Yet Shipped Availability UN 5470
Bishop Scientific Co. Ltd.	1476	1 ea. oven. single well 220V. 50 C - AC (95005 A) MI dokotinsky Regulator (UC 507)	\$ 100.69	Dimitri Donakoy Dec. 6, 1947 B/L 1208
Robert Perry & Co. Ltd.	1507	5.1074 gals. Amyl Acetate (UC 516)		
		\$14,113.19	3,802 3/4 gals.	Sevzaples Nov. 14. 1947 B/L 1202
			1,304 1/2 gals.	Svemples Nov. 14. 1947 B/L 1204

SHIPMENT OF PENICILLIN EQUIPMENT - EMERGENCY SPARE PARTS LIST FOR BYELORUSSIA

CONTRACTOR	Serial #	Quantity Ordered	MATERIAL	FAS US Value	SHIPMENT
Sharples Corporation		(10 gal.	Sharples Centrifuge Spare Parts & Supplies for the #16P Centrifuge Bearing Oil.	12.00	
		(10 lbs.	Novastene grease	12.00	
		2 dos.	Ring Dem Caskets #155	2.40	
		(24 each	Bowl Boss Sleeves (monal) #40	79.20	
		(24 dos.	Bowl Bottom Caskets #154	6.00	
		6 each	Bowl Protecting Caps #B25	5.40	
		(36 each	Three wing springs stainless steel #B76	9.00	
		1 each	Drags, complete, stainless steel	228.00	
		(36 dos.	Bushings #13	18.00	
		1 each	Drag springs #18 (Stainless steel)	3.00	
		4 each	Feed Nozzle - stainless steel, #B54	28.80	
		(24 dos.	Feed Nozzle - gaskets #B55	1.40	
		4 each	Ferrule cap - stainless steel #113	36.00	
		(2 each	Ferrule body - stainless steel #114	66.00	
		(48 dos.	Bullet catches #61	2.40	
		(2 each	Brake assembly complete, Type 3, #B27	16.80	
		(2 each	Bearing complete - #2 bearing	90.00	
		(2 each	Bearing sleeves #67	14.40	
		(2 each	Sleeve nuts #68	1.80	

MOSSIA
Nov. 1, 1947
B/L 1213

Misc. 8743//////////

SHIPMENT OF PENICILLIN EQUIPMENT - EMERGENCY SPARE PARTS LIST FOR BYELORUSSIA

CONTRACTOR	Serial No	Quantity Ordered	MATERIAL	FAS US Value	SHIPMENT
Sharples Corp. (Continued)		4 each	Female clutch #70 (DPMO 779 Pt. 8)	\$12.00	
		12 each	Flexible coupling #75	3.60	
		2 each	Bearing washers #239	.60	
		12 each	Ball bearings #245	2680	
		12 dos.	Bearing oil filters #721	.30	See Proceeding Page
		4 each	Male clutch #71	7.20	
		12 dos.	Spindles, chrome plated #72	115.20	
		4 each	Spindle - screws #74	3.60	
		1 each	Idler Assembly complete	33.00	
		6 each	Idler Ball bearings #803	14.40	
		12 each	Belt, chart #77	36.00	

Misc. 8743

16 each	Mercurial Lamps, G-1518, 18", (DPMO 779 Pt 7) 15 watt.	52.92	Not yet delivered
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Intal General Electric Co. Misc. 8757

1 each	121NH223 Taylor Fullscope Recording Temperature controller, Black case, face mounted bottom connected, 24 hour spring wound clock, reverse action, adjustable sensitivity, 12" chart, CP 4838, Range 0 - 120°C, over range protection D, each tube system 20 ft. mercury actuated capillary, 18/8 stainless steel bulb with rigid extension stem of 18/8 stainless steel 3/8" dia.; including bulb, 18/8 stainless union connection including 3/4" threaded hub nut, for full immersion; 700 charts, ink, etc., with all accessories, complete. (DPMO 779 Pt 6)	496.10	
1 each	121NH223 Same as item 1, except each tube system 10' and 18/8 stainless steel bulb with rigid extension stem of 18/8 stainless steel, 22 3/4" including bulb (DPMO 779 Pt. 6)	476.90	

Misc. 8740

Instrument Company

Baku
Dec. 24, 1947
B/L 1203

SHIPMENT OF PENICILLIN EQUIPMENT - EMERGENCY SPARE PARTS LIST FOR BYELORUS IA

CONTRACTOR	Serial No	Quantity Ordered	DETAILS	FAS DS Value	SHIPMENT
Robert D. Shaw Company Misc. 8737	{	1 each	Standard Assay Cup Dispensers (DPMO 779 Pt 2)	90.00	Russia Nov. 1, 1947 B/L 1206
		6 each	24" Stainless steel vacuum line tubes. 7/16" O.D., 0.032" wall thickness. (DPMO 779 Pt 2)	12.90	
Eriksen Screw Machine Company Misc. 8739		2,500 each	Stainless Steel Revolverliners, .5125 O.D., .242 I.D., .400 Length (DPMO Pt 1)	125.00	Chalukhinets Oct. 3, 1947 B/L 1201
Robert Berry & Co. Ltd.		750 lbs.	Torgitol (Emulsion breaker) in drums suitable for export. (UC-531)	395.59	Bahn B/L 1201 Dec. 24, 1947
Fischer Scientific Co., Ltd.		1 each	Saite Filters, size 100 ml. (UC 579)	21.65	Not yet shipped Availability UN 5815
Fischer Scientific Co. Ltd.		1 each	Constant temperature water baths, type for lab. essay work "Trend", size 16, 220V (UC 579)	171.18	Not yet shipped Availability UN 5897
Fischer Scientific Co., Ltd.		1 each	Lab Freeze-dry set-ups as per sketch provided Fischer Scientific Co. by Merck. To include manifold connecting flasks and 2 traps/net. (UC-579)	122.76	Not yet shipped Availability UN 5315
Fischer Scientific Co., Ltd.		1 each	Barnstead Stillis, capacity 10 G.P.M., steam heated (UC 579)	332.29	Not yet shipped Availability UN 6296

SHIPMENT OF PERICULOUS EQUIPMENT - EMERGENCY PARTS LIST FOR SYMBIONESSIA

CONTRACTOR	Serial #	Quantity Ordered	MATERIAL	FAS US Value	HIGHLIGHT
Taylor Instrument Co. (Continued)		1 each	121M123 Same as item 1, except 1 pen and 1 control system, 10" mercury actuated tubing 18/8 stainless steel bulb with rigid extension of 18/8 stainless steel. 22 3/4" long including bulb. (DPRD 779 Pt 6)	\$254.95	
		3 each	419323 1/4" reducing valves (DPRD 779 Pt 6)	21.00	See Proceeding Page
		3 each	189317 Air Filter (DPRD 779 Pt 6)	19.50	
		3 each	590225 Taylor 1 inch Diaphragm valve, standard construction. (DPRD 779 Pt 6)	112.50	
		2 each	590226 Taylor 2 inch Diaphragm valve, standard construction (DPRD 779 Pt 6)	146.00	
	Paramount Rubber Company		1 each	atching Flange, 6" dia of carbon steel 1/16" plate, circular - 45" diameter, 6" high. To be mounted on 3/4" logs with threaded foot plates for leveling. (DPRD 779 Pt. 5)	
		2 each	Air Filters (for fermenter) carbon steel 16"x5'8" overall. Bottom 12" to be conical to 3/4" outlet equipped with globe valve. Top be to flanges and removable - vessel to be constructed of 16" standard pipe and tested to 15 p.s.i. - 16" perforated plate to be installed at base of pipe for venting out and 10" perforated plate supported by flanges to be extended inside of pipe 12". Two 2" nipples to be welded to vessel diametrically opposite about 6" from top. 2" inlet placed just below bottom perforated plate, per blueprint attached, (DPRD 779 Pt. 5)		Not Yet Shipped Availability P/L 168
		3 each	Air filters (for seed vessels) Carbon steel 6"x3' overall. Lower 8" to be conical to 1/2" outlet equipped with globe valve. Same specifications as above in proportionate dimensions. Outlets to be 1". See blueprint attached. (DPRD 779 Pt. 6)	\$330.00	

Misc. 8314

SHIPMENT OF PENICILLIN BOTTLES - EMERGENCY SPA & PARTS LIST FOR BYELORUSSIA

CONTRACTOR	Serial Quantity # Declared	MATERIAL	FAS US Value	SHIPMENT
Fisher & Porter Company Misc. 87A1	2 each	Master Enclosed Flowmeters to have the following specifications: METERING INSTRUMENT, Figure # 736, Meter Size: 1 1/2; Connection size: 3/4; Connection Type & Rating, Flanged Flat face, Material of Fitting, Bronze, Float Guide, Patented "Beed Guide" tube with 3 raised glass ribs to center and to guide the float, Packing, Neoprene, Connections to Face, Inlet-left, Outlet-right, unless otherwise specified, Panel Mounting Fittings, None, metering, tube, BUNA25, headed, 200 mm. scale, Type of scale & units, Direct reading, Float specifications, B-11-1 of stainless steel. FLUID SPECIFICATIONS, Fluid Air, Color & Transparency, Transparent, Specific Gravity, 1.00, Operating Pressure, Atmospheric, Operating Temperature, 70°F. FLCM RANGE, Maximum Flow, 200 CFM, Minimum Flow, 29CFM. To include outline drawings and pressure correction curves. (DP#D 779 Pt. 4)	\$442.00	Serged Kirov Oct.23,1947 B/L 1212
	3 each	Master Enclosed Flowmeters to have the following specifications: METERING INSTRUMENT, Figure #, 735, Meter Size, 6; Connection size, 3/4; Connection Type & Rating, screwed, Material of Fitting, Brass; Float Guide, Patented "Beed Guide" tube with 3 raised glass ribs to center and to guide the float; Packing Neoprene; Connections to Face: Inlet-left, outlet-right, unless otherwise specified; Panel Mounting Fittings, None, Metering Tube, BUNA25, headed, 250mm scale; Type of scale & units, Direct reading, Float specifications- BQ-62 of stainless steel. FLUID SPECIFICATIONS, Fluid. Air, Color & Transparency, Transparent, Specific Gravity, 1.00; Op rating Pressure, Atmospheric; Operating Temperature, 70°F. FLCM RANGE, Maximum Flow, 200CFM, Minimum flow 1.4 CFM . To include outline drawings and pressure correction curves. (DP#D 779 Pt. 4)	196.80	
Mason-Edlen Regulator Company Misc. 8738	2 each	2" #316 Back Pressure Regulators, cast iron body, flanged ends, F&D 250 # Ex. Hy. Standard #304 18/8 stainless steel trim. Grease sealed Lubricator, #1 Grease #7 case, Adjustable range 6-20 PSI, Controlling Air 0-200 CFM. DP#D 779 Pt. 3}		Baku Dec.24,1947 B/L 1214
	3 each	1/2" #316 Back Pressure Regulators, Cast Iron Coxy, screwed ends, #304 18/8 stainless steel trim, Grease sealed Lubricator, #1 Grease #9 Case, Adjustable range 2-7 PSI Valve open above 5 PSI, Controlling Air 0-25 CFM. (DP#D 779 Pt. 3)	492.00	

SUPPLEMENTARY REPORT
 SHIPMENTS OF PIPES AND FITTINGS FOR PENICILLIN EQUIPMENT TO HYELORUSSIA

CONTRACTOR	Quantity Shipped	MATERIAL	FAS US Value	SHIPMENT
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Greene & Company, Ltd. DC 413	732' 10"	1" Type 304 C.D. Stainless Steel Seamless Tubing	\$1,234.44	1 Mikhail Kutuzov Nov. 18, 1947
	322' 6"	" " " " " " " "	1,002.68	B/L 1203

The following items were all shipped on the Vladivostok B/L 1202, February 14, 1948 packed in 6 boxes, gross weight, 1,201 lbs., value \$1,760.37

65	1"	A8890 stainless steel unions
6	1 x 1/2"	A8886 stainless steel box. bushings
4	1 1/4 x 1"	" " " "
6	1 x 1/2"	" " " "
4	2 x 1 1/4"	" " " "
6	1/2 x 1 1/4"	" " " "
2	A8840 stainless steel gate valves	SCD
11	3"	A552 E Std seamless steel 90° welding elbows
12	4"	" " " "
16	6"	" " " "
22	1/4"	355 1/2 all iron SCD globe valves
50	1/2"	A5554 all iron SCD globe valves
26	1 1/2"	" " " "
13	2"	" " " "
46	3/4"	" " " "
3	1/4"	A808 All iron SCD gate valves

The followings items were all shipped on the Vladivostok B/L 1219 February 14, 1948 packed in 26 cases, gross wt., 10,344 lbs., value \$4,435.13

200	1/2 x 1	1/2" Sq. Hd. carbon steel machine bolts with hexagon nuts
50	1 1/2"	A519 blk M.I. ER unions
50	1/4"	" " " "
25	1/2"	" " " "
60	3/4"	" " " "
100	1"	" " " "
50	1/2"	A519 Galv. M.I. ER Unions
24	1 1/2"	Std. blk. C.I. Tees
50	1/2"	" " " "
75	1"	" " " "
12	1/4"	" " " "

SUPPLEMENTARY REPORT
 SHIPMENTS OF PIPES AND FITTINGS FOR PENICILLIN EQUIPMENT TO BYELORUSSIA

CONTRACTOR	Quantity Shipped	MATERIAL	FAS US Value	SHIPMENT
	12	1 1/2" Std. Galv. C.I. Tees		
	12	2" " " " "		
	30	3/4" " " " " "		
	30	1" " " " " "		
	36	1 1/4" " " " " "		
	6	1 1/4 x 1 1/4 x 3/4" Std. Galv. C.I. Red Tees		
	150	1 1/2" Std. Blk C.I. Elks		Vladivostok, 3/1 1219
	50	2" " " " " "		(Continued)
	50	1/2" " " " " "		
	100	3/4" " " " " "		
	150	1" " " " " "		
	50	1/4" " " " " "		
	50	1/2" Std. Galv. C.I. Elks		
	30	3/4" " " " " "		
	24	1" " " " " "		
	36	1 1/4" " " " " "		
	12	1 1/2 x 3/4" Std. Blk C.I. Red Elks		
	1	3 x 1 1/4" " " " " "		
	1	1 1/4 x 1" Blk Shoulder Bushings F.F.40.		
	2	3" #525 Std Blk C.I. Elks		
	1	6" " " " " "		
	2	6 x 3" #545 Std. Blk C.I. Red Elks F.F.40.		
	1	8 x 6" #545 " " " " "		
	2	3" #29 Std Blk C.I. Tees F.F.40		
	2	6" #29 " " " " "		
	52	3 x 1/2" Std #553 Blk C.I. Comp. Flanges F & D		
	19	6 x 11" " " " " "		
	1	8 x 13 1/2" " " " " "		
	6	4 x 9" " " " " "		
	46	1/2" #83 Alliron gate valves SDP F.F.40		
	5	3/4" " " " " "		
	24	1" " " " " "		
	26	1 1/4" " " " " "		
	20	3" #73 all iron gate valve		
	3	4" " " " " "		
	4	6" " " " " "		
	7	4" #73 all iron gate valves F & D air under water tested		

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 SUPPLEMENTARY REPORT
 SHIPMENTS OF PIPES AND FITTINGS FOR FERTILIZER EQUIPMENT TO BYELORUSSIA

CONTRACTOR	Quantity Shipped	MATERIAL	PAS US VALUE	SHIPMENT
	11	6" A.73 all iron gate valves F & F&D air under water tested	Vladivostok, B/1, A.219 February 4, 1948	}
	40	3 5/8" O.D. style "T" handwheels		
	4	2x2x2" A.888 stainless TEE'S SCD		
	86	1" A.8868 " "		
	65	1" A.8860 Stainless Steel 90 degree SCD elbows		
	100	1" A.S.740 " Gate valves BCD		
	20	1" A.8803 " Globe valves		
	40	1" A.8889 Stainless steel SCD comp. flanges F & D		

SUPPLY MATRIAL REPORT
SHIPMENTS OF PIPES AND FITTINGS FOR PARTICIPATING EQUIPMENT TO MYELORUSSIA

CONTRACTOR	Item No	Quantity Shipped	MATERIAL
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Ideal Supply Company The following piping was shipped on the KAMENITZ PUGLICK B/L 1201, January 8, 1948, Total value \$428.21

1	210ft.	1/4" black pipe, threaded and coupled
2	315 ft.	1/2" " " " "
3	252 ft.	3/4" " " " "
4	168 ft.	3/4" galvan. pipe threaded and coupled
6	420 ft.	1" galvan. pipe, threaded and coupled
8	105 ft.	1 1/4" black pipe threaded and coupled
9	126 ft.	1 1/4" galvan. pipe threaded and coupled
13	65 ft.	4" black pipe, plain ends threaded and coupled
15	93 ft.	8" x 25 lbs. black pipe, plain ends
16	20 ft.	12" x 50 lbs. " " " "

The following piping was shipped on the VLADIVOSTOK, B/L 1214, February 14, 1948, total value \$2,653.83

3	147 ft.	3/4" black, threaded and coupled
5	210 ft.	1" " " " "
6	210 ft.	1" galvan. pipe, threaded and coupled
7	770 ft.	1" stainless steel no. 304 pipe, seamless
11	311 ft.	2" stainless steel no. 304 pipe, sea loss
12	105 ft.	3" black pipe, plain ends
13	69 ft.	4" black pipe, plain ends
14	68 ft.	6" " " " "

The following piping was shipped on the VADI OCTOZ, B/L 1216, February 14, 1948, total value \$322.46

3	147 ft.	3/4" black, pipe, threaded and coupled
5	210 ft.	1" " " " "
6	210 ft.	1" galvan. pipe threaded and coupled
13	86 ft.	4" black pipe, plain ends
14	91 ft.	6" " " " "

SUPPLEMENTARY REPORT
SHIPMENTS OF PIPES AND FITTINGS FOR PENICILLIN EQUIPMENT TO BYELORUSSIA

CONTRACTOR	Item No	QUANTITY SHIPPED	MATERIAL
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The following piping is in New York to be loaded on the first available vessel, total value \$232.46

5	210 ft.	1" black pipe, threaded and coupled
6	210 ft.	1" galvan. pipe, threaded and coupled
10	105 ft.	" " " " " "
13	113 ft.	4" black pipe, plain ends.

The following items were delivered by February 29th, 1948 and will be shipped as soon as possible. This will constitute the last and final shipment of piping for the penicillin plant, total value \$88.35.

6	210 ft.	1" Galvan. pipe, threaded and coupled	} Cancelled
10	210 ft.	" " " " " "	
14	81 ft.	6" Black pipe, plain ends	
15	67 ft.	8" x 25 lbs. black pipe plain ends	

SUPPLEMENTARY

SHIPMENTS OF PIPES AND FITTINGS FOR P.

CONTRACTOR	Item #	QUANTITY SHIPPED
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Ideal Supply Company

The following items were delivered by February 29th. 1948 and will constitute the last and final shipment of piping and fittings.

6.	210 ft.	1" Galvanized Pipe, Threaded and
10.	210 ft.	2"

STATEMENTS OF PARTICULAR EQUIPMENT TO ITALY

M.E.B. B-1758/UC-266

PAGE 1

CONTRACTOR
 SERIAL No.
 QUANTITY Ordered
 MATERIAL
 FAS US Value
 SHIPMENT

Canadian Ingersoll Rand Co. Ltd. A1-3059	1	1 1/2 Canadian Ingersoll Rand Class ES 1-ML Class 2 construction air compressors complete with accessories (price inclusive): Filter, Air Inlet Sump, Intake Receiver, Air, 42" x 10" After Coolers, 88 RPM, with safety Valves Motor, 60 H.P., 380/220V, 3 phase, 50 cycle Components, starting, for above 60 H.P. motor 1 1/2 Canadian Ingersoll Class ES 1 pump and accessories (price inclusive): Motor, 20 H.P., 380/220 V, 3 phase, 50 cycle including starting components. Access. Sliding, for above motor	\$8,908.65	Marchport B/L #10 & Z/L #11 June 5/47
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Canadian Westinghouse Co. Ltd. A1-3011 PA-1	2	15 H.P., 3 phase, 50 cycles, 1500 RPM, 380/220 volt 50 C rise, protected type H.S. unipole cage induction motors with normal starting torque and low starting current and LC only bases for motors complete with starters.	\$ 496.04	Mont Alta B/L #5 Sept 19/47
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Leand Electric Canada Ltd. A1-3012 PA-1	3	Motors, 3/4 or 1 H.P., 380/220 V, 3 phase, 50 cycle.	\$ 122.00	Mont Gaspe B/L #4 April 17/47
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The Smart Turner Machine Co. A1-3013 PA-1	1	1 1/2 LDD slotted unipole centrifugal pumps, standard fitted with open type iron impeller, bell bearings, direct connected to 1 1/2 H.P., 3 phase, 50 cycle, 220/380 volts, 1500 RPM standard impregnated protected type motor, together with manual starting switch having thermal overload protection.	\$ 157.77	Marchport B/L #5 June 5/47
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SHIPMENTS OF ANTIBIOTIC EQUIPMENT TO ITALY
 C.S.B. B-1758/UC-266

PAGE 2

CUSTOMER	Serial No.	Quantity ordered	MATERIAL	IAS US Value	SHIPMENT
The Canadian Fairbanks Morse Co.	Al-3014	2	Fairbanks-Morse 1 1/2" Figure 5531, all iron centrifugal pumps mounted on base and direct connected through flexible coupling to end including an Electric Taper & Equipment Company 3 H.P., 3 phase, 50 cycle, 380/220 volts, 1500 RPM, 50 G rise, standard protected type electric motor.	\$833.96	Marchport B/L #90 June 5/47
	Al-3014	1	Fairbanks-Morse 1" Figure 5531, all iron centrifugal pump mounted on base and direct connected through flexible coupling to end including an Electric Taper & Equipment Co. 1 1/2 H.P., 3 phase, 50 cycle, 380/220 volt, 1500 RPM, 50 G rise, standard protected type electric motor.		
Taylor Instrument Companies of Canada, Ltd.	Al-3015 PA-1	1	Thermometer, Instrument Recording, #76JM223 Taylor, 2 pen record, with left and right tube system, 20 ft. leads, with a 33" rigid 18-8SS stem and union connection assembly. Range of instrument, 0-225 F., with over-range protection & chart No. OP-136.	\$654.85	Port Clair B/L #1 May 2/47
		1	Thermometer, recording, 2 pen, chart (same as above except for 10' leads & 22-3/4" stem).		
		1	Thermometer, Recording, 1 pen, (same as above except for 10' leads & 22-3/4" stem).		
Devere & Williams Ltd.	Al-3016 PA-1	2	Type 77C Agitators having 1/2 H.P., 380/220 volt 3 phase, 50 cycle, 1500 RPM open protected motors stainless steel shaft, end controller for use in tank 45" dia. x 4 ft. deep.	\$328.86	Marchport B/L #6 June 3/47
	Al-3055 PA-1	2	Tanks, 7'x15'		
The Toronto Iron Works, Ltd.		3	Tanks, 40" dia. x 3' 2 5/8" plain steel complete with reducer motor coupling on slow coupling 90 RPM	\$6,000.02	Marchport B/L #3 June 5/47

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CONTRACTOR	Serial No.	Quantity Ordered	MATERIAL	PAS US Value	SHIPMENT
General American Transcription Corp.	7PS-2733	2	Turbo-Mixers, impellers, quadruplex; for agitation without motors. (UA 1687)	\$1,587.60	Rooster State B/L #1 UN June 11/47
Anti-biotics, USDA, Food & Drug		1	Samples pure penicillin G crystal form 1667		turned over to trainees
		1	Samples pure penicillin K crystal form 85% (non-standard)		
Anti-biotics, USDA, Food & Drug (cont'd)		1	Sample standard streptococcus aureus 209P		Turned over to trainees
		1	Sample Bacillus Subtilis 3D PGI-220		
Northern Regional Research Lab.		1	Sample penicillin chrysogenum 1984 H22		
		1	Sample penicillin notatatus 532		
		1	Sample Bacillus Davis Dubos B5M		
		1	Sample MHDL 1612		
Madison Wisconsin		1	Sample X-1612 in seal		
		1	Sample culture X		
		1	Sample culture Q176		
Pensell Boiler Ltd.	A1-3017	1	60" dia. by 15'-1" long storage tanks welded construction made of 3/16" steel plate in shell 1/4" flatheads, with 16" bolted manhole four 2" screwed outlets and two 1/2" in each head. Painted two shop coats of paint outside only, all outlets to be plugged for shipping.	\$270.88	Mont Grappe B/L #12 Dec. 26/46
Toronto Coppermithing Co. Ltd.	A1-3056 PA-2	1	50 gal. SS covered tanks with Conical Bottom & SS cooling coil	\$134.36	Mont Grappe B/L #17 Dec. 26/46 Tank shipped without agitator & thermometer.

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SHIPMAN'S OF PENICILLIN EQUIPMENT TO ITALY
ON
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CONTRACTOR	Serial No.	Quantity Ordered	MATERIAL	Value	SHIPMENT
					Marchport B/L #7 June 5/47 Agitator & thermometer for above tanks shipped with 35 gal. tanks contract # 17
Monte Copper Smithing Co. Ltd.	AI-3056 PA-2	120	Trays (Aluminum or Copper Construction) with individual compartments like egg crates for holding vials during freezing and drying.	\$1,447.92	Mont Gaspe B/L #107 Dec 26/46
Taylor Instrument Co.	AI-3058 AI-3058 PA-2	2 4	Single Pen Taylor Recording Thermometers Chart No. DP 3502, range 0-100°F 10' lead 15-85 Accuratus Tubing stem length 24" with one Trico Air Filter and one air reducing valve #5 and one Taylor Mono Steel Even Action Diaphragm valve. Single Pen Taylor Recording Thermometers Chart No. DP 3502, range 0-100°F 10' lead, 18-85 Accuratus tubing, stem length 20" with one Trico Air Filter and one air reducing valve #5 and one Taylor Mono Steel Even Action Diaphragm Valve. Taylor Gauge Thermometers	\$1,922.32	Makedonia B/L #1 March 21/47
Penicillin Bridge Co., Ltd.	AI-3057	2	Autoclaves for steam sterilizing of penicillin vials, diameter 10", length 7'	\$1,601.80	Mont Gaspe B/L #13 Dec. 26/46
Canadian Ice Machine Company	AI-3059	1	Canadian Ice Refrigerator Units (Compressor & Piping)	\$ 541.76	Mont Clair B/L #31 Oct. 29/47
English Electric Co. of Canada Ltd.	AI-3060 PA-3	2	Squirrel Cage Motors, frame 326, 15 H.P. 1500 RPM 220/380 volt, 3 phase, 50 cycle, 50 DSE. C. Rise, continuous rated, protected type, with centrifrifiction bearings and with Sliding Base but without pulley	\$ 414.26	Mont Gaspe B/L #9 April 2/47

SHIPMENTS OF PENICILLIN EQUIPMENT TO ITALY
 ON
 C.E.B. B-1758/UC-266

CONTRACTOR	Serial No.	Quantity Ordered	MATERIAL	ZAS US Value	SHIPMENT
United Steel Co., Ltd.	AL-1108	10	Belt Drive, Belt, Dodge V., for 15 H.P. motor, belt and pulley to fit on motor	\$180.53	Not yet shipped UN 6128
Toronto Coppermithing Co. Ltd.	AL-1107 PA-1	2	Gen Corn Oil, 10 gal., complete with gauge and safety valve.	\$693.83	Marchport B/L#7 June 5/47
Toronto Coppermithing Co. Ltd.	AL-1107	1	Tank, 350 U.S. gallons stainless steel with coil	\$570.27	Marchport B/L#7 June 5/47
Richardson Agencies, Ltd.	AL-3018	1	Tanks, closed, 200 U.S. gal. 42" IDx36" jacketed glass lined with 2" insulation and steel sheathing, with agitator and 7/8 h.p. explosion proof motor and drive.	\$3,712.27	Mont Clair B/L#20 May 20/47
Richardson Agencies, Ltd.	PA-1	3	Tanks, SS, 400 U.S. gal. 46" with agitator and 1 H.P. explosion proof motor	\$9,036.61	Marchport B/L#7 June 5/47
Richardson Agencies, Ltd.	PA-1	1	Distillation Unit, glass lined, preadler; consisting of 50 gallon glass lined kettle, preadler #B-51449; 50 gallon glass lined receiver, preadler #B-51451, and SS tubular condenser, preadler #B-51450.	\$1,727.15	Mont Clair B/L#20 May 20/47
Richardson Agencies, Ltd.	PA-1	2	Tanks, mix, 50 U.S. gallon, glass lined, jacketed 24" IDx29" insulated, steel sheath, with agitator and 1 H.P. explosion proof motor	\$3,168.52	Mont Sorrel B/L #12 April 24/47
Richardson Agencies, Ltd.	PA-1	3	Tanks, Buffer, 200 gallon, SS, 40" x 38 5/8" with agitator and 3/4 H.P. explosion proof motor revised design of tank bottom and add baffles	\$6,129.37	Mont Sorrel B/L #11 April 24/47

SHIPPED LESS VALUES

SHIPMENTS OF PENICILLIN EQUIPMENT TO ITALY

C.E.B. B-1755/UC-266

CONTRACTOR	Serial No.	Quantity Ordered	MATERIAL	FAS US Value	SHIPMENT
Richardson Agencies, Ltd.	PA-1	10	Tanks, 100 US. gallon, glass lined, jacketed, insulated and steel sheathed with agitator, baffle and 3/4 H.P. explosion proof motor	\$1,824.01	Marchport B/L # June 5/47
Richardson Agencies, Ltd.	PA-1	2	Tanks, 50 U.S. gallon, glass lined	\$3,283.60	Mont Caspe B/L #29 June 30/47
Whiting Corp., Ltd.	AI-3019 PA-2	4	Sharples 16" Super Centrifuge Vapour Tight Model Pressurite belt drive with explosion-proof motors 6 separating bowls, 1 clarifying bowl, all SS	\$16,919.34	Marchport B/L #16 June 5/47
		1 set	Sharples Laboratory Model Centrifuge direct drive SS bowls, 1 clarifying, 2 separating.		
Fischer & Porter Company	AI-3025	1	Broth Rotameters	\$429.39	Highpoint Victor B/L #2 Dec. 26/46
		1	Acetate Rotameters		
		1	Phosphoric Acid Rotameters		
		1	Rotameters for Water		
A. Coyle, J... Devine Mfg. Co. Division, R.A. Porter Co., Inc.	AI-3024 PA-2	5	Special No. 1A Devine Vacuum Chamber Driers each cabinet to have 5 or 6 shelves	\$4,566.09	Mont Caspe B/L #8 June 30/47
Canadian Laboratory Supply	AI-3020	1	International size 2 oil testing centrifuge with 267 A Mitar head	\$512.10	Marchport B/L #15 June 5/47
Canadian Laboratory Supply	AI-3020	2	Model 40 SS 50-10 Brewer Automatic Pipetting Machines	\$360.87	Mont Caspe B/L #16 Dec. 26/46

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SHIPMENTS OF PENICILLIN EQUIPMENT TO ITALY

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C.S.B. B-1758/UC-266

CONTRACTOR	Serial No.	Quantity Ordered	MATERIAL	F.P.S US Value	SHIPMENT
F.S.B. Howard & Co., Ltd.	Al-3022 PA-2	1	Alliot four-stage steam with intercondenser operating 115 lb. steam pressure Alliot three-stage steam ejector for use in starting operations.	\$5,050.07	Hellenic Star B/L JUN 1 July 7/47
Jean Ingalls Co., Ltd.	Al-1109 PA-3	1 set	Pump, set, consisting of: 1 each Acetate Pump 1 each Broth Pump 2 each strong acetate transfer pumps 1 each wash tanks & solvent filling pumps 1 each chloroform pumps 1 each Spare pumps (10 gpm 25-30 ft. head gear pumps, 3/4 HP motor's explosion proof 85 gears, cast steel casings or equivalent. Acid pump gear pump, 10 gpm., 70' head, hard rubber 3/4 h.p. explosion-proof	\$2,872.00	Mont Alta B/L Sept. 19/47
Canadian Ingersoll Rand Co. Ltd.	Al-2958 PA-3	1 set	4 ft. diameter by 2 ft. face Bird Young Universal Filters all in accordance with proposal W-9013 Exp. 1773 of March 7.	\$7,258.40	Mont Caspe B/L Dec. 26/46
Harrison Agencies, Ltd.	Al-3045 PA-4	3	66x66" vertical Pfandler glass-lined steel storage tanks furnished with 2" of cork insulation completely covered with a 3/16" manhole and supporting lugs, 2-3" openings and 1-2" opening.	\$5,566.97	Makedonia B/L Nov. 30/46
Harrison Agencies, Ltd.	Al-3045 PA-4	1	Pfandler Heat Exchangers (fixed tube sheet type as on pages 8 and 9 Pfandler Condenser Manual No. 837, type 304 stainless on the tube side and plain carbon steel on the shell side. Dimensions 63" for broth 2" flanged, for coolant circulation 3" flanged. Tubes are type 304 stainless 66 1/4" OD 16 gauge 12' 0" long. SS tube sheets 3/4" thick design pressure 75 lbs. 1 5/8" in. both shell and tube sheets.	\$1,740.58	Marchport B/L June 5/47

SHIPMENT OF PENICILLIN EQUIPMENT FOR ITALY
ON

C.I.B. B-1753/UC-266

CONTRACTOR	SERIAL NO.	QUANTITY ORDERED	MATERIAL	FAS US Value	SHIPMENT
Christopher A. Olson Co. Washington	OF 1599	5	Pumps, 3 to 10 gpm, operating at a total working head of 20 feet, 1 W, 4 - 4 electropump, fitted for 1 - 1/4" suction and 1" discharge and covered by a 50 cycle, 220/440 volt, 2 pole electric motor	\$418.00	Hellenic Berch April 6/47 B/L V-9
M & M Industries & Trading Corp.	FS 1255	8	Cold Storage Unit complete. Each unit to be complete with two self-contained refrigerating units and each refrigerating unit to have individual compressor, 3 h.p. 3 phase, 220 volt, 50 or 60 cycle electric motor, air cooled condenser, blower type water defrosting evaporator. Each storage compartment is to have two swinging doors. The cold storage box approx. dimensions: 12' 10" by 24' 4" by 7' 6", to be made up of sections. The refrigerating unit should be fully self contained and manufactured in such a way that it would be possible to use them singly or in pairs. Units should be controlled from an integral control panel. Total capacity approx. 2340 cubic ft. With spare parts. (UA 2855)	\$2,290.00	Christopher Galsen B/L #5 May 25/47 2 refrig units) Annual Cost 2 refrig cabs. B/L #1 July 12
Harold Water Co.	WS 1257	1		\$2,156.00	1 refrig. unit Chris. Galsen B/L # May 25/47 1 refrig. cab. Samuel Holt E/L IAP July 12 1 set spare parts Hoosier State #/1 27UN June 11
John Amman Air Conditioning Co. Inc	FS-1258	8	Refrigerating unit, self contained, portable, complete with carrier compressor, 3 h.p. 220 volt, 50 or 60 cycle electric motor, air cooled condenser, blower type water defrosting evaporator. B.T.U. capacity with Freon: 100 degree Ambient at 25 degree refrigerant - 19,500 B.T.U./hr. 100 degree Ambient at 10 degree refrigerant 8,950 B.T.U./hour, unit furnished should be same unit used with storage box above, with spare parts. (UA 2855)	\$6,116.00	Asbury Vignory B/L #2 April 29, 1947

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SHIPMENTS OF PENICILLIN EQUIPMENT TO ITALY
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CONTRACTOR	Serial No.	Quantity Ordered	MATERIAL	Value	SHIPMENT
J. Stokes Co.	OP-3492	5	Vacuum Gauge, Meleed	\$700.00	Honduras Victory Feb. 18, 1947 B/L 9
The West Co., Phila. Pa.	PAA 2559 TPS 5355	1,000,000	Stoppers, soft rubber, to fit 20 cc penicillin bottles; #87 rubber stock composition paraffined; to be stopper S-29. (UA-191/P91-LAS-6).	\$4,235.00	Catevba Victory B/L #3 July 9/47
The West Co. Phoenixville, Pa. (Richardson Agencies)	812	1	Machine, capping, semi-automatic with $\frac{1}{2}$ H.P. 60 cycle, 110/220 volt, AC motor; turret type wetscapper designed to cap & crimp 20 mm size, triple seal aluminum caps of penicillin bottles, at the rate of 60 to 100 per minute. (UC 364) Triple Seal Aluminum Caps Single Seal Aluminum Caps.	\$4,720.17	Actor B/L 2 Dec. 2/47
Aluminum Co. of America	PAA 2220 TPS 5465	1,100,000	Closures, aluminum; 20 mm. size fitting No. S-29 rubber stopper for penicillin bottles 3 piece combination stericap, Aluminum Co. of America No. 20-120. (UA-191/P91 - LES-6)	\$5,021.50	Grigoriene GIII B/L #3 April 26/47
Washington Glass Co.	PAA 2146 TPS 5123	6,954 gross	Vial, glass, borosilicate, practical fill 20 cc fill to base of neck, 24 cc; O.D. 32mm; height 58 mm, I.D. of neck 12 $\frac{1}{2}$ mm. To be USP type 1 glassware Model No. 5-205 (UA-191/F91 - LES 5)	\$23,225.11	Lone Star State B/L MAY -9 May 17/47
Corn Refine Refining Co.	PAA 2209 TPS 542	75,743 lbs.	Steep water. Available from Corn Products Refining Co. 17 Battery Place, N.Y. (UA-191/F88 - DAC-21 190 tons)	\$3,345.18	Lone Star State B/L MAY 10 May 17/47

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STATEMENT OF PENICILLIN EQUIPMENT TO INDI
 OR
 C.A.S. B-1758/UC-266

C. N. ACTION	Serial No.	Quantity Ordered	UNIT PRICE	TAS US Value	SHIPMENT
Corn Products Refining Co.		38 short tons	Same as above	\$2,776.00	Cancelled
Mellinckrodt Chem. Works	P&A 2226 TPS 6026	825 lbs.	Potassium dihydrogen phosphate (mono-basic). Available from Mellinckrodt Chem. Works, St. Louis, Mo. (UA-191/83 DMC-71)	\$ 226.70	Originals Bill #4 A-11 26/47
Northern Condensing Co.	TPS 6176	117,800 lbs.	Lactose (milk sugar) Commercial grade in 100 lbs. drums (UA-191/P88 - DMC 24)	\$3,972.30	Hallenic Invoice #1 UN-4 March 10/47
Swift & Company	TPS 6312	11,496 lbs.	Penicillin defoaming agent (UC-2768)	\$4,946.20	Long Star State B/L ZUN May 17, 1947
East of Toledo	P&A 2048	200 lbs.	Phenol, USP, fused (acid carbolic)	\$36.14	
East of Toledo		200 lbs.	Magnesium Sulphate crystal		
Wm. Baker Chem. Co.	TPS 437	16,900 lbs.	Chloroform, technical, avail. from Wm Baker Chem. Co. Midland, Michigan (UA 191/P88 - DMC-21)	\$3,167.30	Hoesler State B/L 14 98 June 11/1947
Robert Berry & Co. Ltd.		22,320 lbs.	Phosphoric acid, 85% USP, Syrupy. Not available from American Agri. Chem. Co. (UC-517) Merck	\$6,023.06	Cesar d'Almeida Victory B/L 1 Nov. 14/47
British Govt. Contract	PC 383	1,000 lbs.	Acid Phenylacetic	\$1,108.25	ERO shipment from United Kingdom

SHIPMENTS OF PENICILLIN EQUIPMENT TO ITALY
ON
G. E. B. B-1756/UC-266

CONTRACTOR	Serial No.	Quantity Ordered	MATERIAL	FAS US Value	SHIPMENT
F. T. Baker Chem. Co.	TS 1070	300 lbs.	Sodium hydroxide C. P. reagent, sticks UA-3041	\$99.10	Kellenic Star B/L 9 UN July 12/47
Robert Berry & Co. Ltd.		15,200	Sodium Hydroxide, technical flakes, 100# pkg. (UC-517)	\$3,061.11	Merchdale B/L 1 Dec. 28/47
F. V. R. Export Corp. N.Y. N. Y.	SP 3952	9 lbs.	Acid Sulphuric C.P. concentrated, C.P. OP	\$1.40	Tripport Apr. 21/47 B/L 16
Wifeco Lab., Inc.	TS 1071	8x100 frames	Cystine L - Cystin UA-3041	\$74.80	Hoosier State B/L 4 UN June 11/47
Magran & Bell, Ltd.		2 1/2 lbs.	Trypsin 1.75 Pancreas substance	\$20.10	actor B/L 14 Dec. 12/47
Wifeco Lab., Inc.	TS-1071	10 kilos	Pancreatic Extract (dried pancreas) UA-3041	\$242.00	Hoosier State B/L #4 UN June 11/47
Mallinkrodt Chem. Works	OP-3951	2 1/2 lbs.	Ferric Tartrate C.P.	\$6.68	Albion Victoria B/L #2 Dec. 14/46
Wifeco Lab., Inc.	TS-1071	12 lbs.	beef extract UA-3041	\$56.50	Hoosier State B/L UN4 June 11/47
Robert & Berry & Co. Ltd.		1 7/8 lbs.	Clrase (Dianstom) USP IX (UC-517)	\$10.55	Merchdale B/L 1 Dec. 29/47

SHIPMENTS OF PENICILLIN EQUIPMENT TO ITALY

C.S.B. B-1758/UC-266

CONTRACTOR	Serial No.	Quantity Ordered	MATERIAL	FAS US Value	SHIPMENT
New Zealand Govt. Contract	UZ 3/6	2 long tons	Lactose B.P. Standard	\$704.00	Shipment made from New Zealand during Nov. 1946
V. Pulp & Paper Co.	TS-1069	700 lbs.	Nuchar C 190 H UA-3041	\$297.90	Trimont B/L #4 June 27/47
F. Baker Chem. Co.	TS-1070	1,260 lbs.	Sodium Sulphate, anhydrous C.P. UA-3041	\$352.80	Cancelled
Cave & Co. Ltd.	217	700 lbs.	Glass wool, lead free and borax free, fine .0002 to .0003 in. Pyrex high stability. (UC-507)	\$1,275.46	Cotton State B/L 6-4 Dec. 28/47
Czechoslovakian Govt. Contract (K.K.O.) PC-354		4,719 tons	Sodium nitrate USP VIII O.3%	\$2,806.91	Shipped from Prague July 14/47
Ingram & Bell, Ltd.	UC-517	5,200 lbs.	Calcium Carbonate	\$249.34	Actor B/L 14 Dec. 2/47
P.M.R. Export Corp., N.Y.	OP-1952	40 ozs.	Acid, Para-aminobenzole CP	\$42.25	Tripport B/L 16 Apr. 21/47
Ingram & Bell, Ltd.		50 grams	Crystal Violet 85% Bacto (UC-517)	\$2.17	Actor B/L 14 Dec. 2/47
Mico Lab., Inc.	TS-1071	50 lbs.	Agar, granular or shreds, USP (UA-3041)	\$302.50	Hoosier State B/L UN 4 June 11/47
Ingram & Bell Ltd.		1,100 grams	Sodium Thyglycolate (UC-517)	\$38.71	Actor B/L 14 Dec. 2/47

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SHIPMENT OF PENICILLIN EQUIPMENT TO ITALY

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G.R.B. B-1758/UC-266

SHIPMENT	QUANTITY ORDERED	MATERIAL	FAV US Value	SHIPMENT
1515	2	Caesin powder Oil immersion cedarwood, USP reagent Sodium hydrochloride solution USP	\$16.50 7.00 8.75	Cancelled
1515	2	Penicillin equipment Liquid air trap Pyrex, O.D. 25mm	\$42.20	Cotton State B/L 8 Dec. 28/47
OP-3954	5 gal	Bearing lubricating oil. Pure paraffin oil Viscosity 100 - 125 SSU 100	\$2.50	Long Star State B/L 8 UM May 17/47
	5 yds.	Plastic tubing (Vinylite) O.D. 1" 1/16 inch wall	\$15.00	Cancelled
TS-740	2 each	Compress. thermostat, 50° - 100° F. capacity 110 C.F. (UA-3059)	\$558.78	Heesler State B/L 7 UM June 11/47
OP-3664	40	Belts, Sharples Super Centrifuge (OP-MD-719)	\$120.00	Krtevia B/L 6 March 21/47
TS-633	2 sets	P.H. meters, Lab. Model, Gamma Automat 4th accessories (UA-3024)	\$692.98	Long Star State B/L 12 UM May 17/47
	6 each	Carbon rings. Replacements for 14x11 Ingersoll Rand Glass KS-1-ML Class 2 construction air compressors (UC-511)	\$139.53	Actor B/L 8 Dec. 2/47
1470	1	Water distillation apparatus, 3 to 5 G.P.H. (UC-507)	\$297.29	Cotton State B/L 8-4 Dec. 28/47

SHIPMENTS OF SPECIALIZED EQUIPMENT TO ITALY

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C.I.B. 2-1758/UC-266

CONTRACTOR	Serial No.	Quantity Ordered	MATERIAL	FAS US Value	SHIPMENT
		5	Cylinder Freeon 12	\$100.00	Cancelled
Fisher Scientific Co., Ltd.	1475	20 doz.	Pipettes, Serological 5 cc each, 1/10 graduation	\$110.46	Actor B/L 5 Dec. 2/47
Fisher Scientific Co., Ltd.	1476	15 each	Flasks, volumetric, 50 cc each ground glass (UC-507) tepper, crux.	\$15.63	Actor B/L 5 Dec. 2/47
Cave & Co. Ltd.	1470	1	Pumps, oil, vacuum cameo, Kyvac-Vac, 1/4 h.p.	\$27.76	Cotton State B/L 24 Dec. 28/47
Cave & Co. Ltd.	1470	1	Pumps, oil vacuum cameo nega. Vac. less/motor 220 V, 50 cycle (UC-507)		
Fisher Scientific Co., Ltd.	1476	1	Filters, pressure Seitz Biological 10 liter capacity each with 100 filter discs. (UC-507)	\$323.13	Actor B/L 45 Dec. 2/47
Canadian Lab. Supplies Ltd.	1477	1	Counters, Quebec Colong Cameo, MM scale (UC 507)	\$41.24	Kent Clair B/L 26 Oct. 29/47
		4	Flatirum, loop	\$6.00	Cancelled
Fisher Scientific Co., Ltd.	1476	300 sq.	Tubing, rubber, heavy, wall, 1/4" exterior UC507	\$40.28	Actor B/L 45 Dec. 2/47
Canadian Lab. Supplies, Ltd.	1477	6 each	Funnels, Separatory, 6000 cc. stoppered globe (UC-507)	\$64.53	Marchdale B/L 3 Dec. 29/47
Cave & Co. Ltd.	1470	6 each	Funnel, Buchner, porcelain (not jacketed)	\$77.71	Cotton State B/L 24 Dec. 28/47

SHIPMENTS OF FINIGILLIS EQUIPMENT TO ITALY
 ON
 C.E.B. B-1758 UC-266

PAGE 15

YAS US
 Value

Quantity
 Ordered

MATERIAL

Serial
 No.

CONTRACTOR

SHIPMENT

Fisher Scientific Co. Ltd.	1476	1	Oven, single wall 280 V. 50 c - AC (95005 A) VI Dekstinsky Regulator (UG-507)	\$100.69	Aster B/L 5 Dec. 2/47
Robert Berry & Co. Ltd.	1507	5,071 5/6	Acetyl Acetate (UC 516)	\$8,829.41	Mont Clair B/L 65 Oct. 29/47 2,261 1/2 gals. Ac for B/L 6 Dec. 2/47 2,790 1/3 gals.

Robert Berry & Co. Ltd.	2222	2,267 gals app.	Acetyl acetate (UC 603)	8,413.54	Not yet delivered
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Sharples Corp.	MISC 8743	10 gal.	Sharples Centrifuge Spare Parts & Supplies for the #16P Centrifuge (NWD 779 st. 8) bearing oil	\$12.00	GRIGORIANS G III B/L 4 US Nov 3/47
		10 lb.	Evansstone Grease	12.00	
		2 doz.	King Van gaskets #155	2.40	
		24 each	Devil Boss sleeves (normal) #40	79.20	
		24 doz.	Devil Bottom Gaskets #154	6.00	
		6 each	Devil protecting caps #325	5.40	
		36 each	Three wing springs stainless steel #576	9.00	
		1 each	Brags, complete, stainless steel #76	228.00	
		36 doz	Bushings #43	18.00	
		1 each	Drag springs #48 (stainless steel) *	3.00	
		4 each	Feed Nozzle - stainless steel, #334 *	28.80	
		24 doz.	Feed Nozzle - gaskets #335	1.40	
		4 each	Ferrule cap - stainless steel #413	76.00	
		2 each	Ferrule body - stainless steel #414	66.00	
		4 doz.	Bullet catches #561	2.40	
		2 each	Brake assembly complete, #70 J, #327	16.80	
		2 each	Bearing complete - #2 bearing #327	90.00	
		2 each	Bearing sleeves #67	14.40	
		2 each	Sleeve nuts #66	1.80	
		4 each	Female clutch #70	12.00	

CONTINUING
 1488A
 15

SHIPMENTS OF PHENIGLIE EQUIPMENT TO ITALY
 ON
 G.E.B. B-1758/UC-266

SUPPLEMENT

F Y US Value

CONTRACTOR

Serial No.

Quantity Ordered

MATERIAL

Value

12 each	Flexible coupling #75	\$3.60
2 each	Bearing washers #239	.60
12 each	Ball bearings #245	28.80
12 doz.	Bearing oil filters #721	.30
4 each	Male clutch #71	7.20
12 doz.	Spindles, chrome plated, #72 (DPND 779 Pt. 6)	115.20
4 each	Spindle screws #74	3.60
1 "	Idler Assembly complete	33.00
6 each	Idler Ball bearings #303	14.40
12 each	Ball, chart #77	36.00
16 each	Geoidal lamps, 0-1500, 18", (DPND 779 Pt. 7)	52.92

International General Electric Co. MISC 8757

not yet delivered

\$498.10

Taylor fallescope recording temperature controller, black case, face mounted bottom connected, 24 hour spring wound clock; reverse action; adjustable sensitivity; 12" chart. OP #538, Range 0 -120°O, over range protection, D; each tube system 20 ft. mercury actuated capillary; 18/8 stainless steel bulb with rigid extension stem of 18/8 stainless steel 33" long including bulb; 18/8 stainless union connection including 3/4" thread hub nut; for full immersion; 100 charts, ink, etc.; with all accessories, complete. (DPND 779 Pt. 6)

NOOSIER STATE
 B/L 1 UN
 Dec. 20/47

121NH223
 1 each

MISC 8740

Taylor Instrument Co.

\$78.90

121NH223 Same as item 1, except each tube system 10' and 18/8 stainless steel bulb with rigid extension stem of 18/8 stainless steel, 22 3/4" including bulb. (DPND 779 Pt. 6)

1 each

\$21.00

419323 1/4" reducing valves (DPND 779 Pt 6)

3 each

\$254.95

121NH223 Same as item 1, except 1 pen and 1 control system; 10' mercury actuated tubing; 18/8 stainless steel bulb with rigid extension of 18/8 stainless steel, 22 3/4" long including bulb. (DPND 779 Pt. 6)

1 each

CONTINUED

SHIPMENT OF FERRICELLEN EQUIPMENT TO ITALY

PAGE 17

OR
C.A.B. 1-1755/UC-266

CONTRACTOR	Serial No.	Quantity Ordered	MATERIAL	FAS VS Value	SHIPMENT
Tayler Instrument Co.	MISC 8740	3 each	RO9817 Air Filter, (DPND 779 Pt. 6)	\$19.50	HONDURAS VICTORY B/L 1 Nov. 29/47
		3 each	5 VC225 Tayler 1 inch Diaphragm valve standard construction. (DPND 779 Pt. 6)	\$112.50	
		2 each	6VC226 Tayler 2 inch Diaphragm valve, standard construction. (DPND 779 Pt. 6)	\$146.00	
Parment's Rubber Co.	MISC 8814	1 each	Batching Tanks, to be of carbon steel 3/16" plate, circular - 46" diameter, 60" high. To be mounted on 3/8" legs with threaded feet plates for leveling. (DPND 779 Pt. 5)	\$880.00	
		2 each	Air Filters (for Fermenters) Carbon steel 16" x 5 1/2" overall. Bottom 12" to be conical to 3/4" outlet equipped with globe valve, top to be flanged and removable - vessel to be constructed of 16" standard pipe and tested to 15 p.s.i. - a 16" perforated plate to be installed at base of pipe for weel support and 16" perforated plate supported by flanged top to extend inside of pipe 12". Two 2" nipples to be welded to vessel diametrically opposite about 6" from top. 2" inlet placed just below bottom perforated plate; per blueprint attached. (DPND 779 Pt. 5)		
		3 each	Air filters (for seed vessels) carbon steel 6"x3" overall. Lower 5" to be conical to 1/2" outlet equipped with globe valve. Same specifications as above in proportionate dimensions. Inlets to be 1". See blue print attached. (DPND 779 Pt. 5)		

SHIPMENTS OF PHOENIX EQUIPMENT TO ITALY

C.L.B. 2-1756/VE-266

CONTRACTOR	Serial No.	QUANTITY ORDERED	MATERIAL	UNIT VALUE	SHIPMENT
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Fischer & Porter Co. MISC 674 2 each \$442.00

Master enclosed floorcrafters to have the following specifications: METERING INSTRUMENT: Figure #736, meter size 11; connection size 3/4" connection type & rating; Flanged flat face; material of fitting: Bronze, float guide: Patented "Lead Guide" tube with 3 raised glass ribs to center and to guide the float; packing: Neoprene; connections to face: Inlet-left, outlet right, unless otherwise specified; Panel mounting fittings: none; metering tube: B11A25, headed, 250 mm. scale; type of scale & units: direct reading; float specifications: B6011-1 of stainless steel. FLUID SPECIFICATIONS: Fluid: Air; Color & Transparency: Transparent; Specific Gravity: 1.00; Operating Pressure: Atmospheric; Operating Temperature: 70°F. FLOW RANGE: Maximum flow: 200 GPM; Minimum Flow: 200 GPM. To include outline drawings and pressure correction curves. (MFD 779 Pt. 4)

3 each

Master Enclosed floorcrafters to have the following specifications: METERING INSTRUMENT: Figure #735; Meter size 6; connection size 3/4"; connection type & rating: screwed; Material of Fitting: Brass; Float Guide: Patented "Lead Guide" tube with 3 raised glass ribs to center and to guide the float; Packing: Neoprene; Connections to Face: Inlet-left, Outlet-right, unless otherwise specified; Panel Mounting Fittings: None; metering tube: B6025, headed, 250 mm. scale; type of scale & units: direct reading; float specifications: B6-62 of stainless steel. FLUID SPECIFICATIONS: Fluid: Air; Color & Transparency: transparent; specific gravity 1.00; operating temperature: 70°F. FLOW RANGE: Maximum flow: 200 GPM; Minimum flow 1.4 GPM. To include outline drawings and pressure correction curves. (MFD 779 Pt. 4)

\$156.80

FRACHTREI STAPEL
 B/L 3 BK
 Oct 7/47

SHIPMENTS OF PENICILLIN EQUIPMENT TO ITALY

O. R. D. 2-1753/08-266

CONTRACTOR	SERIAL No.	Quantity Ordered	MATERIAL	Value	SHIPMENT
Kross-Moilan Regulator Co.	MISC 8738	2 each	2" #516 Back Pressure Regulators, cast iron body, flanged ends, #ND 2504 Hx. By. Standard #304 18/8 Stainless Steel trim. Grease sealed lubricator, #1 gress #7 case, adjustable range 6-20 PSI, controlling air 0-200 CFM. (BWD 779 Pt. 3)	\$492.00	HOOSIER STATE B/L 1 UN Dec. 20/47
		3 each	1/2" #516 Back Pressure Regulators, Cast Iron body, screwed ends, #304 18/8 Stainless Steel trim, Grease sealed lubricator, #1 grease #9 Case. Adjustable range 2-7 PSI valve open above 5 PSI, controlling air 0-25 CFM. (BWD 779 Pt. 3)	\$90.00 12.90	Origeniens C 118 B/L 1 UN Nov 3/47
Robert B. Shaw Co.	MISC 8737	1 each 6 each	Standard Army Cap Dispensers (BWD 779 Pt. 2) 24" Stainless steel Magazine tubes, 7/16" O.D., 0.032" wall thickness. (BWD 779 Pt. 2)	\$90.00 12.90	Origeniens C 118 B/L 1 UN Nov 3/47
Ericksen Screw Machine Co.	MISC 8739	2,500 each	Stainless steel Pushers/liners, .3125 O.D., .242 I.D., .400 length (BWD 779 Pt. 1)	125.00	Patres J. Sealers B/L Sept. 10/47
Robert Berry & Co. Ltd.		1,000 lbs.	Tergitol (Emulsion breaker) in drums suitable for export. (UC-561)	527.45	HOOSIER STATE B/L 1 UN DEC. 16/47
Fischer Scientific Co. Ltd.		1 each	Salts Filters, size 100 ml. (UC579)	21.65	ACTOR B/L 5 Dec. 2/47
Fischer Scientific Co. Ltd.		1 each	Constant Temperature water baths, type for Lab. assay work "Fress", size 160, 220 volt (UC-579)	171.15	MARCELA B/L 4 Dec. 29/47

SHIPMENTS OF PENICILLIN EQUIPMENT TO HEALY
 ON
 G.L.B. 3-1784/00-266

CONTRACT	Serial No.	Quantity Ordered	MATERIAL	7/25/53 Value	SHIPMENT
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Fischer Scientific Co. Ltd. 1 each Lab Freeze-dry set-ups as per sketch provided Fischer Scientific Co. by Merck. To include manifold connecting flasks and 2 traps/set. (UC-579) \$122.76 Acker 2/L 5 Dec. 2/47

Fischer Scientific Co. Ltd. 1 each Barnstead stills, capacity 10 OZ, steam heated (UC-579) \$332.29 Not yet delivered UN 6295

Item No.	Quantity	Description	Value
1	210 ft.	1/2" Black Pipe, threaded and coupled	9.12
2	315 ft.	1/2" " " " " " "	18.17
3	252 ft.	3/4" " " " " " "	16.60
4	168 ft.	3/4" Galv. pipe	16.03
6	420 ft.	1" " " " " "	56.52
8	105 ft.	1 1/2" Black pipe	14.60
9	126 ft.	1 1/2" Galv. pipe	22.77
13	63 ft.	2" Black pipe, plain ends	45.08
15	84 ft.	2" x 25 lbs. black pipe, plain ends	142.46
16	19 ft.	12" x 50 lbs. " " " "	66.86

Available but not yet shipped

Item No.	Quantity	Description	Value
3	248 ft.	3/4" Black pipe, threaded and coupled	18.30
5	600 ft.	1" " " " " " "	62.28
6	1,180 ft.	1" Galv. pipe	156.84
7	750 ft.	1" stainless steel No. 304 Pipe, seamless	1,470.75
10	600 ft.	2" Galv. pipe, threaded and coupled	171.66
11	300 ft.	2" stainless steel No. 304 pipe, seamless	1,098.00
12	100 ft.	3" Black pipe, plain ends	44.51
13	237 ft.	4" Black pipe, plain ends	162.85
14	300 ft.	6" " " " "	292.99
15	116 ft.	8" x 25 lbs. black pipe, plain ends	271.38

Not yet delivered

CRANE & Co. Ltd. UC-413 762' 10" Item No. 7 1,285.01 Acker 2/L 3
 317' 10" 11 966.36 Dec. 2/47

Balance of piping & fittings 5,653.03 Not yet delivered 20

Victory Ship
1525128

SHIPMENTS OF PERICULOUS EQUIPMENT TO CZECHOSLOVAKIA
 OF
 C.E.B. B-1758/UC-366

COMP. CTOR	Serial No.	Quantity Ordered	MATERIAL	FAS BS Value	SHIPMENT
Canadian Ingersoll Rand Co. Ltd.	AI-2959	1	14211 Canadian Ingersoll Rand Class ES 1 HL Class 2 construction air compressors complete with accessories (price inclusive): Filter, air inlet) These two items not included in original shipment Snabbers, Intake) on Marchdale but were shipped later on the SHIPMENT B/L 25 Nov. 14/47	\$8,908.65	MARCHDALE B/L 35 May 21, 1947
		1	Receiver, air, 42" x 10"		
		1	After Coolers, 88 HM-2, with Safety Valves		
		1	Motor, 60 H.P., 330/220V, 3 phase, 50 cycle		
		1	Comensators, starting, for above 60 H.P. motor		
	PA-1	1	14217 Canadian Ingersoll Class ES 1 pump and accessories (price inclusive):		
		1	Motor, 20 H.P. 380/220 V. 3 phase, 50 cycle including starting compensators		
		1	Mases, sliding, for above motor.		
Canadian Vestinghouse Co. Ltd.	AI-3011 PA-1	2	15 H.P., 3 phase, 50 cycles, 1500 RPM, 360/220 volt 40°C rise, protected type R.S. Squirrel cage induction motors with normal starting torque and low starting current and 10 only bases for motors complete with starters.	\$96.04	TRIMONT B/L #37 Sept. 7/47
Leland Electric Canada Ltd.	AI-3012 PA-1	3	Motors, 3/4 or 1 H.P. 360/220 V. 3 phase, 50 cycle	\$122.00	MARCHDALE B/L #4 May 8/47
The Smart Turner Machine Co. Ltd.	AI-3013 PA-1	1	1 1/2 LDU side suction centrifugal pumps, standard fitted with open type iron impeller, ball bearings, direct connected to 1 1/2 H.P., 3 phase, 50 cycle, 220/360 volts, 1500 RPM standard impregnated protected type motor, together with manual starting switch having thermal overload protection	\$157.77	MARCHDALE B/L #34 May 21/47

SHIPMENT OF MEDICINE EQUIPMENT TO CZECHOSLOVAKIA
 ON
 C.T.A. B-1758/UC-266

CONTRACTOR	SERIAL No.	Quantity Ordered	DESCRIPTION	FA\$ US Value	SHIPMENT
Canadian Fairbanks Morse Co.	AI-3014	2	Fairbanks-Morse 1 1/2", Figure 5531, all iron centrifugal pumps mounted on base and direct connected through flexible coupling to and including an electric tamper & excitation company 3 h.p. 3 phase, 50 cycle, 380/220 volts, 1500 RPM., 50° C rise, standard protected type electric motor.	\$833.96	MARSHALL B/L #21 July 3/47
	AI-3014	1	Fairbanks-Morse 1", Figure 5531, all iron centrifugal pump mounted on base and direct connected through flexible coupling to and including an Electric Tamper & Equipment Co. 1 1/2 h.p. 3 phase, 50 cycle, 380/220 volt, 1500 RPM., 50° C rise, standard protected type electric motor.		
Kaylor Instrument Companies of Canada, Ltd.	AI-3015 PA-1	1	Thermometer, Instrument Recording, #76M223 Taylor, 2 pen record, with left and right tube system, 20 ft. leads, with a 33" rigid 18-8SS stem and union connection assembly. Range of instrument, 0-225°F., with over-range protection D chart No. OP-136.	\$654.85	MARSHALL B/L #4 Nov. 27/46
		1	Thermometer, recording, 2 pen, chart (same as above except for 10' leads & 22 3/4" stem).		
		1	Thermometer, recording, 1 pen, (same as above except for 10' leads & 22 3/4" stem).		
Bolmore & Williams Ltd.	AI-3016 PA-1	2	Type "YE" agitators having 1/4 h.p., 380/220 volt 3 phase, 50 cycle, 1500 RPM open protected motors stainless steel shaft, and propeller for use in tank 45" dia. x 4 ft. deep.	\$128.36	MARSHALL B/L #31 May 21/47
Toronto Iron Works, Ltd.	AI-3055 PA-1	2	Tanks, 7' x 15'	\$6,905.02	MARSHALL B/L #26 May 21/47
		3	Franks, 40" dia. x 3' 2 5/8" plain steel complete with reducer motor coupling and slow coupling 90 RPM		

SHIPMENT OF PENICILLIN EQUIPMENT TO CZECHOSLOVAKIA

ON
C.A.B. B-1755/UD-266

CONTRACTOR	Serial No.	Quantity Ordered	MATERIAL	FAS US Value	SHIPMENT
General American Transportation Corp.	273-2733	2	Turbo-mixers, impellers, quadruplex; for agitation without motors. (UA 1687)	\$1,887.60	AMERICAN FARMER B/L UM 6 May 23/47
Anti-Biotics, USDA, Food & Drug		1	Samples pure penicillin G crystal form 1667		Turned over to trainees
		1	Samples pure penicillin K crystal form 85% (non-standard)		
Anti-Biotics, USDA, Food & Drug (cont'd)		1	Samples standard streptococcus aureus 209P		Turned over to trainees
		1	Samples Bacillus subtilis 6D PCL-220		
Northern Regional Research Lab.		1	Samples penicillin chrysogenum 1984 #22		Turned over to trainees
		1	Samples penicillin notatatus 832		
		1	Sampler bacillus brevis Dabos 1541		
		1	Samples DREX 1612		
Madison Wisconsin		1	Samples L-1612 in soil		Turned over to trainees
		1	Samples culture B		
		1	Samples culture Q176		
Idell Boiler Ltd.	AI-3017	1	60" dia. by 15'-0" long storage tanks welded construction made of 3/16" steel plate in shell 1/4" flatheads. With 16" belted manhole four 2" scrod outlets and two 2" in each head. Painted two shop coats of paint outside only, all outlets to be plugged for shipping.	\$270.88	Meat Geape Jan. 4 47 B/L #3
Toronto Coppersmithing Co. Ltd.	AI-3056 PA-2	1	50 gal. SS covered tanks with conical bottom & SS cooling coil	438.46	Marchdale This tank shipped without B/L & agitator & thermometer. Oct. 31/46
			The agitator & thermometer for above tank was shipped with 350 gal. tanks Contract AI 3107		Marchdale B/L #50 May 21/47

SHIPMENTS OF PENICILLIN EQUIPMENT TO CZECHOSLOVAKIA

C.I.B. B-1758/VC-266

CONTRACTOR Serial No. Quantity Ordered MATERIAL FAS VS Value SHIPMENT

Toronto Coppermithing Co., Ltd. Al-3056 PA-2 120 Trays (Aluminum or copper construction) with individual compartments like egg crates for holding vials during freezing and drying. 1,433.92 \$7,541.57 May-27/46 Sept. 46 MARCHDALE B/L #8 Oct. 31/46

Taylor Instrument Co. Al-3056 PA-2 2 Single Pen Taylor recording thermometers chart No. CP 3502, range 0-100° F. 10' lead 15-SSS apparatus tubing stem length 24" with one Trico Air filter and one air reducing valve #5 and one Taylor mono steel even action diaphragm valve. 1,922.32 MARCHDALE B/L #2 May 8, 1947

Al-3056 PA-2 4 Single Pen Taylor recording thermometers chart No. CP 3502, range 0-100° F. 10' lead, 15-SSS apparatus tubing, stem length 20" with one Trico air filter and one air reducing valve #5 and one Taylor mono steel even action diaphragm valve. Taylor gauge thermometers

Dominion Bridge Co., Ltd. Al-3057 2 Autoclaves for steam sterilizing of penicillin vials, diameter 30", length 7'. 1,691.80 MARCHDALE B/L #5 27/Nov/46

Canadian Ice Machine Company Al-3059 1 Canadian Ice Refrigerator Units (Compressor & Piping) 541.76 TRIPORT B/L 23 Nov. 14/47

English Electric Co. of Canada Ltd. Al-3060 PA-3 2 Squirrel Cage Motors, frame 326, 15A.P., 1500 RPM 220/380 volt, 3 phase, 50 cycle, 50 DED. G. rice, continuous rated, protected type, with antifriction bearings and with sliding base but without pulley 428.26 MARCHDALE B/L #8 May 6/47

United Steel Co., Ltd. Al-3068 10 Belt drive, belt, Dodge V., for 15 h.p. motor, belt and pulley to fit on motor 180.53 Not yet shipped

4 Sheaves 40 6135 Packaged in 1 case 11.11.47

SHIPMENTS OF PHYSICALLY EQUIPMENT TO CHEMOSYNOVIRA
ON
O.R.B. B-1750/00-266

CONTRACTOR	Serial No.	QUANTITY ORDERED	MATERIAL	743 US Value	SHIPMENT
Yoruba Coppermining Co., Ltd.	AI-3107 PA-1	2	Can iron oil, 10 gal., complete with gauge and safety valve.	693.83	MARCHDALE B/L #20 May 21/47
		1	Tank, 350 U.S. gallon stainless steel with coil and drive.	570.27	
Bla vinn Agencies, Ltd.	AI-3018	1	Tanks, closed, 200 U.S. gal. 1/2" IDx36" jacketed glass lined with 2" insulation and steel sheathing, with agitator and 3/4 h.p. explosion proof motor and drive.	3,712.27	MARCHDALE B/L 16 Mar. 3/47
		3	Tanks, SS, 400 U.S. gal. 16" IDx60" with agitator and 1 h.p. explosion proof motor	9,036.61	MARCHDALE B/L #28 May 21/47
		1	Distillation tank, glass lined, pfauder; consisting of 50 gallon glass lined kettle, pfauder #A-5149; 50 gallon glass lined receiver, pfauder #A-5149, and SS Subarcondenser, pfauder #A-5149.	1,727.15	MARCHDALE B/L #16 March 3, 1947
		2	Tanks, mix, 50 U.S. gallon, glass lined, jacketed 2 1/2" IDx29" insulated, steel sheath, with agitator and 1 h.p. explosion proof motor	3,168.52	MARCHDALE B/L #7 May 8/47
		3	Tanks, buffer, 200 gallon, SS, 40" IDx38 5/8" with agitator and 3/4 h.p. explosion proof motor SHIPPED - SEE VALVES * B/L #5	6,429.37	MARCHDALE B/L #27 May 21/47
Yudling Corp., Ltd.	AI-3019 PA-2	1	Tanks, 100 US gallon, glass lined, jacketed, insulated and steel sheathed with agitator, baffle and 3/4 h.p. explosion proof motor	1,824.01	MARCHDALE B/L #43 May 8/47
		2	Tanks, 50 U.S. gallon, glass lined	3,283.60	MARCHDALE B/L #29 July 26/47
		4	Sharples 16" Super centrifuge vapour tight nodal premarite belt drive with explosion-proof motors 6 separating bowls, 1 clarifying bowl, all SS	16,919.34	MARCHDALE B/L #27 May 21/47
1	Sharples laboratory nodal centrifuge direct drive SS bowls, 1 clarifying, 2 separating				

* VALUE FOR 200 CAL. TANK SHIPPED VIA WEAPE [1] 48 MAY 8 1947

SHIPMENTS OF PHARMACEUTICAL EQUIPMENT TO CZECHOSLOVAKIA

C.L.B. B-1758/UC-266

CONTRACTOR	Serial No.	Quantity Ordered	MATERIAL	Value	SHIPMENT
Fischer & Porter Company	Al-3025	1	Broth Rotameters	429.39	MARSDENIA B/L 13
		1	Acetate Rotameters		This shipment was considered lost in Trieste off-loading but has since been located Nov. 15/47 in Venice & will be forwarded to Czechoslovakia
		1	Phosphoric Acid Rotameters		
		1	Rotameters for water		
Coyle, J.P. Devine Mfg. Co.	Al-3024	5	Special No. 1A Devine Vacuum Chamber Drivers, each cabinet to have 5 or 6 shelves.	4,566.09	MARCHCAPZ B/L #35 May 6/47
ision, R.K.Porter Co., Inc.	PA-2				MARCHDALE B/L #47 May 21/47
Canadian Laboratory Supply	Al-3020	1	International size 2 oil testing centrifuge with 267 A mitar head	512.10	Most Gaepe B/L #6 Jan 4/47
		2	Model No SS 50-10 Brewer automatic pipetting machines	360.67	AMERICAN FARMER B/L UN-15 May 24/47
F.S.B. Howard & Co. Ltd.	Al-3022 PA-2	1	Elliot four-stage steam with intercondenser operating 115 lb. steam pressure	5,050.07	
		1	Elliot three-stage steam ejector for use in starting operations.		
John Inglis Co., Ltd.	Al-3109 PA-3	1	Pump, set, consisting of: Acetate pump	2,872.00	TRIMONT B/L #6 Sept. 7/47
		1	Broth pump		
		2	Strong acetate transfer pumps		
		1	Spent acetate transfer pump		
		1	Wash tanks & solvent filling pumps		
		1	Chloroform pumps		
		1	Spare pumps (10 gpm 25-30 ft. head gear pumps, 3/4 h.p. motors explosion proof SS gears, cast steel casings or equivalent		
	Al-3109 PA-3	1	Acid pump gear pump, 10 gpm., 30' head, hard rubber 3/4 h.p. explosion-proof		
Canadian Ingersoll Rand Co., Ltd.	Al-2958 PA-3	1	4 ft. diameter by 2 ft. face Bird Young Universal filters all in accordance with proposal M-9913 exp. 1773 of March 7.	7,258.40	MAKEDONIA B/L #6 27 Nov/46

Approved For Release 2002/07/24 : CIA-RDP80-00926A003700020008-3

SHIPMENTS OF REFRIGERATION EQUIPMENT TO CZECHOSLOVAKIA

C.S.B. B-1755/US-266

CONTRACTOR SERIAL NO. QUANTITY ORDERED MATERIAL VALUE

Richardson Arcand, Ltd. A1-3045 PA-4 3 66x66" vertical Pfandler glass-lined steel storage tanks furnished with 2" of cork insulation completely covered with a 3/16" earhole and supporting legs, 2-3/8" openings and 1-2" openings. 1,740.58

A1-3045 PA-4 1 Pfandler heat exchangers (fired tube sheet type as on pages 8 and 9 Pfandler condenser manual and plain carbon steel on the shell side and No. 877 type 304 stainless on the tube side. Dimensions 7' x 7' x 2" flanged, for coolant circulation 3" flanged. Tubes are type 304 stainless 66 1/4" OD 18 gauge 12' 0" long. SS tube sheets 3/8" thick design pressure 75 lbs. 1 sq. in. both shell and tube sides. 1,740.58

Chester A. Olson Co. OP-3599 5 Pumps, 3 to 10 amp, operating at a total working head of 20 feet, 1 1/2" x 1/2" - 4" electropump, fitted for 1-1/2" section and 1" discharge and powered by a 50 cycle, 220/440 volt, 2 pole electric motor. 416.00

L. & M. Industries & Trading Corp. TS-1256 3 Cold storage unit complete. Each unit to be complete with two self-contained refrigerating units and each refrigerating unit to have individual compressor, 3 h.p., 3 phase, 220 volt, 50 or 60 cycle electric motor, air-cooled condenser, blower type water defrosting evaporator. Each storage compartment is to have two swinging doors. The cold storage box approx. dimensions: 12' 10" by 24" by 7' 6", to be made up of sections. The refrigerating unit should be fully self contained and manufactured in such a way that it would be possible to use them singly or in pairs. Unit should be controlled from an integral control panel. Total capacity approx. 2340 cubic ft. with spare parts. (UA 2855) 6,446.00

John Anson Air Conditioning Co., Inc. TS-1258 8 Refrigerating unit, self-contained, portable, complete with carrier compressor, 3 h.p. 220 volt, 50 or 60 cycle electric motor, air-cooled condenser, blower type water defrosting evaporator. B.T.U. capacity with Freon: 100 degree ambient at 25 degree refrigerant-19,000 B.T.U./hr. 100 degree ambient at 10 degree refrigerant 8,950 B.T.U./hr. Unit furnished should be same unit used with storage box above, with spare parts. (UA-2855) 6,116.00

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MAKEDONIA B/L #6 Nov. 27/46
 MAIRCHCAPE B/L #43 May 8/47
 AMERICAN FARMER B/L UN-3 May 19/47
 CHRISTOPHER GARDNER B/L 13 May 25/47
 3 refrig. units
 2 refrig. cab. C
 Samuel Golt B/L LA-3 July 12/47
 1 refrig. cab.
 AMERICAN MICROBENT B/L UN-1 June 23/47
 1 set of spars per AMERICAN MEMBERT B/L UN-3 May 31/47

SHIPMENTS OF PENICILLIN EQUIPMENT TO CZECHOSLOVAKIA

ON
C.I.B. B-1758/UE-266

CONTRACTOR	Serial No.	QUANTITY Ordered	MATERIAL	YAS US Value	SHIPMENT
F. J. Stokes Co.	OP-392	5	Vacuum gauge, McLeod	700.00	AMERICAN SCOUT B/L UM-15 Jan 2/47
The Vest Co., Phila., Pa.	TPS-5355 PAA 2561	1,000,000	Stoppers, soft rubber, to fit 20 cc penicillin bottles; #87 rubber stock composition, paraffined; to be stopper S-29. (UA-191/P91-LRS-6)	4,235.00	REVERRY VICTORY B/L UM-40 July 15/47
West Co. Phoenixville, Pa. (A Hardson Agencies)	612	1	Machine, capping, semi-automatic with 1/2 h.p. 60 cycle, 110/220 volt, AC motor; barrel type Westcooper de-signed to cap & crimp 20 mm size, triple seal aluminum caps of penicillin bottles, at the rate of 60 to 100 per minute. (WG 354)		ACTOR B/L 148 Dec. 2/47
		500,000	Single Seal Aluminum Caps		
		500,000	Triple Seal Aluminum Caps - not yet shipped UM-5062	4,720.17	
Aluminum Co. of America	TPS 5465 PAA 2222	1,102,000 ea.	Closures, aluminum; 20 mm. size fitting No. S-29 rubber stopper for penicillin bottles 3 piece combination stopper, Aluminum Co. of America No. 20-120. (UA-191/P91-LRS-6)	5,030.63	TITAN B/L UM-7 Apr. 25/47
Wheaton Glass Co.	TPS 5123 PAA 2171	6,954 gross	Vial, glass, hero-silicate, practical fill 20 cc fill to base of neck, 24 cc; O.D. 32mm; height 58mm I.D. of neck 12mm. To be USP type 1 glassware Model No. 5-205. (U-191/P91-LRS 5)	23,225.11	TITAN B/L UM 5 Apr 25/47
Co. Products Refining Co.	TPS 542 PAA 2210	74,517 lbs.	Steep water. Available from Corn Products Refining Co. 17, Battery Place, N.Y. (UA-191/P88 - DAC-21, 190 tons)	3,291.03	TITAN B/L UM-46 Apr. 25/47
		38 short tons	Same as above.	2,776.00	Cancelled
Mallinckrodt Chem. Works	TPS 6026 PAA 2228	625 lbs.	Potassium dihydrogen phosphate (monobasic) Available from Mallinckrodt Chem. Works, St. Louis, Mo. (UA-191/P88 - DAC-21)	326.70	TITAN B/L UM-44 April 25/47
Western Condensing Co.	TPS 6176 PAA 2027	117,800 lbs.	Lactose (milk sugar) Commercial grade in 100 lb. drums (UA-191/P88-DAC-24)	23,972.30	AMERICAN SCOUT B/L UM-2 Mar 22/47
Ait & Company	TPS 6312	11,509 lbs.	Penicillin defoaming agent (UA-2768)	4,980.77	AMERICAN VETERAN B/L UM-49 Apr 19/47

SHIPMENTS OF PERISHABLE EQUIPMENT TO CZECHOSLOVAKIA

O.R.B. B-1758/UC-266

CONTRACTOR	Serial No.	Quantity Ordered	MATERIAL	FAS US Value	SHIPMENT
P&A Out of Toledo	P&A 2046	200 lbs.	Phenol, USP, fused (acid carbolic)	\$3.14	VILAKOVA VICTORY
		200 lbs.	Magnesium sulphate crystal	33.00	B/L UN-9 April 7/47
J.T. Baker Chem. Co.	TPS 437 P&A 2477	16,900 lbs.	Chloroform, technical, avail. from Dev Chem. Co. Midland, Michigan (UA 191/PSS D&G-21)	3,160.30	AMERICAN VETERAN B/L UN-3 June 14/47
Art Berry & Co. Ltd.		22,140 lbs.	Phosphoric Acid, 85% USP, syrupy. Not available from American Agri. Chem. Co. (UC-517) An additional 160 lbs. value \$8.57 was shortshipped from the American Merchant and will be shipped later if located.	6,229.95	AMERICAN MERCHANT P/L UN 1 Nov. 12/47
British Govt. Contract	PC 353	1,000 lbs.	Acid Phenylacetic	1,108.25	E.R.O. shipment from United Kingdom FIGHTER WAVE B/L UN-7 July 12/47
J.T. Baker Chem. Co.	TS 1070	300 lbs.	Sodium Hydroxide C.P. reagent, sticks, WA3041	99.00	MORT HOLLAND B/L 9 Dec. 25/47
Robert Berry & Co. Ltd.		15,200 lbs.	Sodium Hydroxide, technical flakes, 100# pks. (UC-517)	3,061.11	AMERICAN VETERAN B/L UN-43 Apr. 19/47
P.W.R. Export Corp. B.I. M. Y.	OP-3952	9 lbs.	Acid Sulphuric C.P. concentrated, G.P. OP	1.40	AMERICAN LEADER B/L UN-3 May 3/47
Difco Lab., Inc.	TS-1071	6200 grams	Cystine L - Cystin - UA-3041	74.80	AMERICAN MERCHANT B/L UN-16 May 3/47
Ingram & Bell, Ltd.		24 lbs.	Tripsin 1.75 pancreas substance	20.00	ACTOR B/L 1 Dec. 2/47
Difco Labs., Inc.	TS-1071	10 kilo	Yeast cells Extract (dried pancreas) UA-3041	\$42.00	AMERICAN LEADER B/L UN-3 May 31/47
Mallinkrodt Chem. Works	OP-3951	24 lbs.	Ferric Tartrate C.P.	6.68	AMERICAN MERCHANT B/L UN-16 May 3/47

SHIPMENTS OF PHARMACEUTICAL EQUIPMENT TO CAMBODIA

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C.A.B. 3-1753/UC-56

Contractor	Serial No.	Quantity Ordered	MATERIAL	IAS US Value	SHIPMENT
Mfco Lab., Inc.	TS-1071	12 lbs.	Beef extract WA-3041	\$56.50	AMERICAN LEADER B/L UR-3 May 31/47
Robert Berry & Co. Ltd.		1 lb.	Gelatin (Dianose) USP IX (UC-517)	5.27	MORT ROLLAND B/L 9 Dec. 25/47
Zealand Govt. Contract	UZ 3/6	2 long tons	Lactose L.P. standard	708.00	Shipment made from New Zealand during Nov 46
V. Va. Pulp & Paper Co.	TS-1069	650 lbs.	Bachar G 190 M WA-3041	193.05	AMERICAN MERCHANT B/L UR-12 June 23/47
J.F. Baker Chem. Co.	TS-1070	1,260 lbs.	Sodium sulphate, anhydrous C.P. WA-3041	352.80	cancelled
Cerro & Co. Ltd.	Z17	600 lbs.	Glass wool, lead free and borax free, fine .0002 to .0003 in. Pyrex high stability. (UC-507)	1,093.25	SPERMIN BREVARD B/L 5 Dec. 1/47
Ingram & Bell, Ltd.	UC-517	5,200 lbs.	Calcium Carbonate	249.34	ACTOR B/L 1 Dec. 2/47
P.V.B. Export Corp. N.Y.	OP-3952	40 oss.	Acid, Para-aminobenzoic GP	82.25	AMERICAN VETERAN B/L UR UR-43 April 19/47
Ingram & Bell, Ltd.		50 grams	Crystal Violet 655 Aceto (UC-517)	2.17	ACTOR B/L 1 Dec. 2/47
Mfco Lab., Inc.	TS-1071	50 lbs.	Agar, granular or shreds, USP (WA-3041)	302.50	AMERICAN LEADER B/L UR-3 May 31/47
Ingram & Bell, Ltd.		1,100 grams	Sodium Thyoglycolate (UC-517)	38.71	ACTOR B/L 1 Dec. 2/47
		22 lbs.	Gasein powder	16.50	
		20 oss.	Oil immersion cedarwood, USP reagent	7.00	Cancelled
		25 lbs.	Sodium hypochlorite solution USP	8.75	

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INSTRUMENTS OF PRECISION EQUIPMENT TO CZECHOSLOVAKIA

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U.S.S.R. B-17 55/50-266

CONTRACTOR	Partial No.	QUANTITY Ordered	MATERIAL	EST. NO Value	SHIPMENT
Case & Co. Ltd.	1515	2 each	Liquid air trap Fyroc, O.D. 25 mm diameter of connecting tube - 20 mm (UC-517)	42.20	Not yet shipped UN 6661
Standard Oil Co. of N.J.	CP-3954	5 gal.	Bearing lubricating oil. Pure paraffin oil. Viscosity 100 - 125 SSU 100	2.50	HEALS of the SEA B/L UN-24 May 3/47
		5 yds.	Plastic tubing (Vinylite) O.D. 1 1/16 inch wall 15.00		cancelled
Wheeler Instrument Co.	78-740	2 each	Controls, thermostat, 50° - 100° F. capacity 110 O.P. (UA-3099)	558.78	AMERICAN FARMER B/L UN-9 May 23/47
Sharples Corporation Philadelphia, Pa.	CP 364	40 each	Bolts, Sharples Super centrifuge (CP-MB-719)	120.00	AMERICAN BANKER B/L UN-18 March 25/47
Gamma Instrument Co., Inc.	78-633	2 sets	P.H. meters, Lab. Model, Gamma antenna with accessories (UA-3024)	892.98	HEALS OF THE SEA B/L UN-2 May 6/47
Canadian Ingersoll Rand Co. Ltd.		6 each	Carbon rings. Replacements for 14x11 Ingersoll Rand Class 25-1-4L Class 2 construction air compressors (UC-517)	139.53	TRIFORT B/L 2 Nov. 14/47
Carve & Co. Ltd.	1470	1 each	Water distillation apparatus, 3 to 5 G.P.H. (UC-507)	297.29	UN 5466 Not yet shipped
		5 each	Cylinder Fyroc 12	100.00	Cancelled
Fischer Scientific Co., Ltd.	1476 1476	20 doz. 14 each	Pipettes, Serological 5 cc each 1/10 graduation Flasks, volumetric, 50 cc each ground glass (UC-507) taper, oral.	110.48 14.59	TRIFORT B/L 22 Nov. 14/47
Carve & Co. Ltd.	1470	1 each	Pumps, oil, vacuum canno, Kymo-Vac, 1/2 h.p. motor, 220 V. 50 cycle (UC 507)	227.76	Not yet shipped UN 6155
	1470	1 each	Pumps, oil vacuum canno negs, vac. loss/motor 220 V. 50 cycle (UC-507)		

SHIPMENTS OF FOREIGNLY EQUIPMENT TO CANADIAN PROVINCES

C.A.B. B-1792/60-266
 OR

CONTRACTOR	SERIAL No.	Quantity Ordered	MATERIAL	EST. No	Value	SHIPMENT
Fisher Scientific Co., Ltd.	1476	1	Filters, pressure Seitz Biological 10 liter capacity each with 100 filter discs. (90-507)	323.13	\$23.13	TRIPORT B/L 22 Nov. 14/47
Canadian Lab. Supplies Ltd.	1477	1	Counters, Quebec Colony Counter, MM scale (90 507)	41.24	\$4.24	TRIPORT B/L 9 Nov. 14/47
Fisher Scientific Co., Ltd.	1476	4	Platinum, loop	6.00	\$6.00	TRIPORT B/L 22 Nov. 14/47
Canadian Lab. Supplies, Ltd.	1477	300 ft.	Tubing, rubber, heavy, wall, 1/2" exterior	40.28	\$40.28	TRIPORT B/L 22 Nov. 14/47
		6	Funnels, Separator, 6000 cc. stoppered globe	84.53	\$84.53	TRIPORT B/L 22 Nov. 14/47
Cave & Co. Ltd.	1470	6	Funnel, Buchner, Porcelain (not jacketed)	78.71	\$78.71	TRIPORT B/L 22 Nov. 14/47
Fisher Scientific Co. Ltd.	1476	1	Oven, single wall 220 V. 50 C - AS (95005 A)	100.69	\$100.69	TRIPORT B/L 22 Nov. 14/47
Robert Barry & Co. Ltd.	1507	5,186 1/6 gal	VI Dekabinsky Regulator (90-507)	16,987.29	\$16,987.29	TRIPORT B/L 10 Sept. 7/47
			Augyl Acetate (90 516)	4,577 1/6 gal.	\$4,577 1/6 gal.	
				2,260.19	\$2,260.19	
				609 gal	\$609 gal	
ert Barry & Co. Ltd.	2222	2,267 gals app.	Augyl Acetate (90 603)	8,483.54	\$8,483.54	TRIPORT B/L 22 Nov. 14/47

CONTRACTOR	SERIAL No.	Quantity Ordered	MATERIAL	EST. No	Value	SHIPMENT
Sharples Corporation		10 gal.	Sharples centrifuge spare parts & supplies for the #16 P centrifuge. Bearing oil (BEMO 779 Pt-5)	12.00	\$12.00	
		10 lb.	Levantine grease	2.40	\$2.40	
		2 doz.	Ring Van gaskets #155	79.20	\$79.20	
		24 each	Level Boss Sleeves (bronze) #40	6.00	\$6.00	
		24 doz.	Level bottom gaskets #154	5.40	\$5.40	
		6 each	Level protobing caps #325	9.00	\$9.00	
		36 each	Three wing springs stainless steel #376	228.00	\$228.00	
		1 each	Drum, complete, stainless steel	18.00	\$18.00	
		36 doz	Bushings #43	3.00	\$3.00	
		1 each	Drug Springs #46 (stainless steel)	28.80	\$28.80	
		4 each	Feed nozzle - stainless steel, #354	1.40	\$1.40	
		24 doz.	Feed Nozzle - gaskets #355			

SHIPMENTS OF PENICILLIN EQUIPMENT TO CZECHOSLOVAKIA

C.S.B. B-1756/UC-266

CONTRACTOR	SERIAL No.	Quantity Ordered	MATERIAL	FAS US Value	SHIPMENT
Sharples Corporation	MISC-5743	4 each	Ferrule cap - stainless steel #413	76.00	AMERICAN SHIPPER B/L OR-3 Oct. 21/47
		2 each	Ferrule body - stainless steel #414	66.00	
		46 doz.	Ballast catches #561	2.40	
		2 each	Brake assembly complete, type 3 #327	16.80	
		2 each	Bearing complete - #2 bearing	90.00	
		2 each	Bearing sleeves #67	14.40	
		2 each	Skavo nuts #68	1.80	
		4 each	Female clutch #70	12.00	
		12 each	Flexible coupling #75	3.60	
		2 each	Bearing washers #239	.60	
		12 each	Ball bearings #245	28.80	
		12 doz.	Bearing oil filters #721	.30	
		4 each	Male clutch #71	7.20	
		12 doz.	Washers, chrome plates, #72 (DPM 779 Pt. 6)	115.20	
		4 each	Spindle - screws #74	3.60	
		1 each	Idle Assembly complete	33.00	
		6 each	Idle ball bearings #303	14.40	
12 each	Belt, chart #77	76.00			

International General Electric Co. MISC 5757 80 each Germetelal Leaps, GC1575, 16", (DPM 779 Pt. 7) 52.92 not yet delivered

Taylor Instrument Co. MISC-6740 121M223 1 each
 Taylor Fall-caps recording thermometer controller, black case, face mounted bottom connected, 24 hour spring wound clock; reverse action; adjustable sensitivity; 12" chart. OP 4538, range 0-120°C, over range protection, D; each tube system 20 ft. mercury actuated capillary; 18/8 stainless steel bulb with rigid extension stem of 18/8 stainless steel 33" long including bulb; 18/8 stainless union connection including 3/4" thread hub nut; for full immersion; 100 charts, ink, etc., with all accessories, complete. (DPM 779 Pt. 6) 498.10

121M223 Same as item 1, except each tube system 10" and 18/8 stainless steel bulb with rigid extension stem of 18/8 stainless steel, 22 3/4" including bulb, (DPM 779 Pt. 6) 478.90

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SHIPMENTS OF PENICILLIN EQUIPMENT TO CZECHOSLOVAKIA
ON
C.L.B. 3-1758/00-266

JAS US Value

SHIPMENT AMERICAN BANKER
B/I UN-1
Dec. 11/47

MATERIAL

QUANTITY ORDERED

SERIAL NO.

CONTRACTOR

Taylor Instrument Co.

Same as item 1, except 1 pen and 1 control system; 10' mercury actuated tubing; 1E/8 stainless steel bulb with rigid extension of 1E/8 stainless steel. 22 3/4" long including bulb. (DPMD 779 Pt. 6)
 41523 1/4" reducing valves (DPMD 779 Pt. 6)
 259517 Air filter. (DPMD 779 Pt. 6)
 5 W0225 Taylor 1 inch diaphragm valve standard construction. (DPMD 779 Pt. 6)
 W0226 Taylor 2 inch diaphragm valve standard construction. (DPMD 779 Pt. 6)

1 each
 12184123
 3 each
 3 each
 3 each
 2 each

Batching tanks, to be of carbon steel 3/16" plate, circular - 46" diameter. 60" high. To be mounted on 36" legs with threaded foot plates for leveling. (DPMD 779 Pt. 5)

1 each

MISC 8814

Paramount Rubber Co.

Air filters (for fermentors) carbon steel 16"x 5 1/2" overall. Bottom 12" to be conical to 3/4" outlet equipped with globe valve, top to be flanged and removable - vessel to be constructed of 16" standard pipe and tested to 15 p.s.i. - a 16" perforated plate to be installed at base of pipe for wool support and 16" perforated plate supported by flanged top to extend inside of pipe 12". Two 2" nipples to be welded to vessel diametrically opposite about 6" from top. 2" inlet placed just below bottom perforated plate; per blueprint attached. (DPMD 779 Pt. 5)

2 each

1,125.00

254.95

21.00
 19.50
 112.50
 146.00

1,290.00

880.00

1,290.00

AMERICAN BANKER
 B/I UN-1
 Dec. 11/47

bottom perforated plate; per blueprint attached. (DPMD 779 Pt. 5)
 Air filters (for seed vessels) carbon steel 6"x5" overall. Lower 5" to be conical to 1/2" outlet equipped with globe valve. Same specifications as above in approximate dimensions. (DPMD 779 Pt. 5)
 to be 1". See blue print attached. (DPMD 779 Pt. 5)

3 each

C.B.B. B-1758/00-266

CM

CONTRACTOR	SERIAL NO.	QUANTITY ORDERED	MATERIAL	YAS BS Value	SHIPMENT
Fischer & Porter Co.	MISC-5741	2 each	Master enclosed floatators to have the following specifications: METERING INSTRUMENT; Figure #; type & rating; flanged flat face; material of fitting; bronze; float guide; patented "Dead Guide" tube with 3 raised glass ribs to center and to guide the float; packing; neoprene; connects as to face; inlet-let; outlet-right; unless otherwise specified; panel mounting fittings; none; metering tube; B6N25, headed, 250mm. scale; type of scale & units; direct reading; float specifications; B6011-1 of stainless steel. FLUID specifications; fluid; Air; color & transparency; transparent; specific gravity; 1.00; operating pressure; atmospheric; operating temperature; 70 F. FLOW RANGE; maximum flow; 200 GPM; minimum flow; 290PM. to include outline drawings and pressure correction curves. (DPMD 779 Pt. 4)	2,780.80 442.00	AMERICAN RANGER B/L UM-1 Sept. 24/47
		3 each	Master enclosed floatators to have the following specifications: METERING INSTRUMENT; Figure #; meter size; 6; connection size; 3/4"; connection type & rating; screwed; material of fitting; brass. float guide; patented "Dead Guide" tube with 3 raised glass ribs to center and to guide the float; packing; neoprene; connects to face; inlet-left, outlet-right, unless otherwise specified; panel mounting fittings; none; metering tube; B6N25, headed, 250mm. scale; type of scale & units; direct reading; float specifications; B6-62 of stainless steel. FLUID SPECIFICATIONS; fluid; Air; color & transparency; transparent; specific gravity, 1.00; operating pressure; atmospheric; operating temperature; 70 F. FLOW RANGE; maximum flow; 20 GPM; minimum flow 1.40PM. to include outline drawings and pressure correction curves. (DPMD 779 Pt. 4)	196.80	

Master enclosed floatators to have the following specifications: METERING INSTRUMENT; Figure #; type & rating; flanged flat face; material of fitting; bronze; float guide; patented "Dead Guide" tube with 3 raised glass ribs to center and to guide the float; packing; neoprene; connects as to face; inlet-let; outlet-right; unless otherwise specified; panel mounting fittings; none; metering tube; B6N25, headed, 250mm. scale; type of scale & units; direct reading; float specifications; B6011-1 of stainless steel. FLUID specifications; fluid; Air; color & transparency; transparent; specific gravity; 1.00; operating pressure; atmospheric; operating temperature; 70 F. FLOW RANGE; maximum flow; 200 GPM; minimum flow; 290PM. to include outline drawings and pressure correction curves. (DPMD 779 Pt. 4)

Master enclosed floatators to have the following specifications: METERING INSTRUMENT; Figure #; meter size; 6; connection size; 3/4"; connection type & rating; screwed; material of fitting; brass. float guide; patented "Dead Guide" tube with 3 raised glass ribs to center and to guide the float; packing; neoprene; connects to face; inlet-left, outlet-right, unless otherwise specified; panel mounting fittings; none; metering tube; B6N25, headed, 250mm. scale; type of scale & units; direct reading; float specifications; B6-62 of stainless steel. FLUID SPECIFICATIONS; fluid; Air; color & transparency; transparent; specific gravity, 1.00; operating pressure; atmospheric; operating temperature; 70 F. FLOW RANGE; maximum flow; 20 GPM; minimum flow 1.40PM. to include outline drawings and pressure correction curves. (DPMD 779 Pt. 4)

SHIPMENTS OF PARTICULAR EQUIPMENT TO CHERNOMORAVIA

C.E.R. B-1754/UC-266

CONTRACTOR	Serial No.	Quantity Ordered	MATERIAL	FAS US Value	SHIPMENT
Kross-Kellian Regulator Co.	MISC 8738	2 each	2" #516 back pressure regulators, cast iron body, flanged ends, FND 2504 E.I. Ny standard #304 18/8 stainless steel trim. Grease sealed lubricator, #1 grease #7 case, adjustable range 6-20 PSI, controlling air 0-200 CFM. DPMD 779 Pt. 3)	192.00	PIONEER COVE B/L UN-1 Dec. 17/47
		3 each	1/2" #516 back pressure regulators, cast iron body, screwed ends, #304 18/8 stainless steel trim, grease sealed lubricator, #1 grease #9 case, adjustable range 2-7 PSI valve open above 5 PSI, controlling air 0-25 CFM. (DPMD 779 Pt. 3)		
Robert D. Shaw Co.	MISC 8737	1 each 6 each	Standard Assay Cup dispensers (DPMD 770 Pt 2) 2 1/2" stainless steel magnesium tubes, 7/16" O.D., 0.032" wall thickness. (DPMD 779 Pt. 2)	90.00 12.90	MILLE OF THE SEA B/L UN-2 Oct. 16/47
Ericsson Screw Machine Co.	MISC 8739	2,500 each	Stainless steel penicillin cylinders, .3125 O.D., .242 I.D., .400 length (DPMD 779 Pt. 1)	125.00	AMERICAN SHIPPER B/L UN-2 Sept. 5/47
Robert Berry & Co. Ltd.		1,000 lbs.	Tergitol (emulsion breaker) in drums suitable for export. (UC-579)	527.45	VILANOVA VICTORY B/L UN-1 Dec. 12/47
Fischer Scientific Co. Ltd.		1 each	Salts filters, size 100 ml. (UC-579)	21.65	Not yet shipped UN 5814
		1 each	Constant temperature water baths, type for Lab. assay work "Tross", size 160, 220 volt (UC-579)	171.18	Not yet shipped
		1 each	Lab freeze-dry set-ups as per sketch provided Fisher Scientific Co. by Merch. To include manual connecting flange and 2 traps/set. (UC-579)	122.76	Not yet shipped UN 5814
		1 each	Distilled stills, capacity 10 G.P.H., steam heated (UC-579)	382.29	Not yet shipped UN 6214

SHIPMENTS OF PERSONALLY EQUIPMENT TO COMMUNIST/STALINIA

C.S.B. B-1758/WB-366

CONTRACTOR	Serial No.	Quantity Ordered	Material	FAS Value	Shipment
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The Ideal Supply Co.	1	210 feet	1 1/4" black pipe, threaded and coupled	9.12	BILL OF THE SEA W/L UN 1 Jan. 13/47
	2	315 feet	1 1/2" " " " " " "	18.17	
	3	252 feet	3/4" " " " " " "	18.60	
	4	168 feet	3/4" galv. pipe " " " "	16.03	
	6	420 feet	1" galv. pipe " " " "	56.52	
	8	105 feet	1 1/4" black pipe threaded and coupled	18.60	
	9	126 feet	1 1/2" galv. pipe threaded and coupled	22.77	
	13	63 feet	4" black pipe, plain ends	45.08	
	15	84 feet	8" x 25 lbs. Black pipe, plain ends	142.46	
	16	19 feet	12" x 70 lbs. " " " "	66.86	

The Ideal Supply Co.	3	246 feet	3/4" black pipe, threaded and coupled	18.30	Not yet delivered
	5	600 feet	1" " " " " "	62.28	
	6	1,180 feet	1" galv. pipe " " " "	158.84	
	7	750 "	1" stainless steel No. 304 pipe, seamless	1,470.75	
	10	600 "	2" galv. pipe, threaded and coupled	171.66	
	11	300 "	2" stainless steel No. 304 pipe, seamless	1,098.00	
	12	100 "	3" black pipe, plain ends	44.61	
	13	237 "	4" " " " "	162.85	
	14	300 "	6" " " " "	292.99	
	15	116 "	8" x 25 lbs. Black pipe plain ends	271.38	

The Ideal Supply Co.	7	765 3/4"	1" type 304 S.S. Stainless steel seamless tubing	1,289.08	AMERICAN FEDERAL B/3 1 Dec. 24/47 Not yet delivered
	11	306 1"	" " " " " "	951.63	
Balance of piping and fittings				5,665.69	Not yet delivered
Fittings				3,871.01	

ITEMS 25A, 25E, 26, 28, 31, 32, 37, 38, 39, 41, 48, 50, 51/2, 74, 77A, 77B, 78A

Handwritten: 11-11-47
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1,814.68 PARKER & W. WISSE 5/4
 JAN 22/48

SHIPMENTS OF PIPE AND FITTINGS FOR PERIPHERAL EQUIPMENT TO CAMBODIA

PAGE 18

CONTRACTOR	Quantity Shipped	MATERIAL	FAS US VALUE	SHIPMENT
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50	1/2"	Std. Blk. C.I. Tees		
75	1"	"		
12	1/4"	"		
12	1 1/2"	Std. Galv. C. I. Tees		
12	2"	"		
30	3/4"	"		
30	1"	"		
76	1 1/4"	"		
6	1 1/2" x 1 1/4"	Std. Galv. C. I. Red Tees		
150	1 1/2"	Std. Blk. C.I. Ells		
50	1"	"		
50	1/2"	"		
100	3/4"	"		
150	1"	"		
50	1 1/4"	Std. Blk. C.I. Ells		
30	3/4"	"		
24	1"	"		
76	1 1/4"	"		
12	1 1/2" x 1 1/4"	Std. Blk. C.I. Red Ells		
1	3 x 1 1/4"	"		
1	1 1/4" x 1"	Blk Shoulder Bushings F.F.&D.		
2	3"	#525 Std Blk C.I. Ells		
1	6"	"		
2	6 x 3"	#545 Std. Blk C.I. Red Ells F.F.&D.		
1	8 x 6"	#545 "		
2	3"	#529 Std. Blk C.I. Tees F.F&D		
2	6"	#529 "		
52	3 x 7 1/2"	Std #553 Blk C.I. Comp Flanges F&D		
19	6 x 11"	"		
1	8 x 13 1/2"	"		
6	4 x 9"	"		
66	1/2"	#468 alliron gate valves SCD F.F.&D.		
5	3/4"	"		
26	1"	"		
26	1 1/4"	"		
20	3"	#473 all iron gatevalves		
1	4"	"		
1	6"	"		

Mont Rolland B/L 3 Feb 21/48
(continued)

SUPPLEMENTARY REPORT
EQUIPMENT'S OF PIPES AND FITTINGS FOR FAMILIAR EQUIPMENT TO CINCINNATI

QIR NUMBER	QUANTITY	DESCRIPTION	UNIT	VALUE
	Shipped			

7	1	4" 4873 all iron gate valves F & P&D air water tested		
11	1	8" 4873 all iron gate valves F & P&D air water tested		
40	3	5/8" O.D. style 7" non-bleed		
4	2	2x2x2" 41888 stainless TEES SCD		
86	1	41888		
85	1	41886 stainless stop; 50 degree SCD elbows		
100	1	41884		
20	1	41883		
40	1	41889 stainless stop; SCD comp. flange P&D		

Mont Rolland B/L 3 Feb 21/48
(continued)

SUPPLEMENTARY REPORT
SHIPMENTS OF PIPES AND FITTINGS FOR FREIGHTLINE EQUIPMENT TO CZECHOSLOVAKIA

CUSTOMER
Ideal Supply Company

QUANTITY
SHIPPED

Item
No.

MATERIAL

The following piping was shipped on the BELLE OF THE SEA B/L US 1 January 9, 1948, total value \$428.21.

1	210 ft.	1 1/8" black pipe, threaded and coupled
2	315 ft.	1/2" " " " " " "
3	252 ft.	3/4" " " " " " "
4	166 ft.	3/4" galvan. pipe threaded and coupled
6	420 ft.	1" " " " " "
8	105 ft.	1 1/4" black pipe " " " "
9	126 ft.	1 1/4" galvan. pipe, threaded and coupled
11	65 ft.	4" black pipe, plain ends
12	93 ft.	8" x 25 lbs. black pipe, plain ends
16	20 ft.	12" x 50 lbs. " " " "

The following piping was shipped on the AMERICAN VETERAN B/L US - February 4, 1948. Total value \$2,660.87

3	147 ft.	3/4" black pipe, threaded and coupled
5	210 ft.	1" " " " " "
6	210 ft.	1" galvan. pipe, " " " "
7	766 ft.	1" stainless steel, No. 304 pipe, seamless
11	XII	2" stainless steel No. 304 pipe, seamless
12	109 ft.	3" black pipe, plain ends
13	69 ft.	4" " " " " "
14	68 ft.	6" " " " " "

The following piping was shipped on the AMERICAN VETERAN B/L US-3 February 4, 1948. Total value \$322.46

3	147 ft.	3/4" black pipe, threaded and coupled
5	210 ft.	1" " " " " " "
6	210 ft.	1" galvan pipe, threaded and coupled
13	86 ft.	4" black pipe, plain ends
14	98 ft.	6" " " " " "

740X 21

SUPPLIERS AND FITTINGS FOR PENICILLIN EQUIPMENT TO CONGO-KINSHASA

CONTRACTOR	ITEM No.	QUANTITY	MATERIAL
		SHIPPED	
	The following piping is to be ordered on the first available vessel. Total value \$232.86.		
	5	210 ft.	1" black pipe, threaded and coupled
	6	210 ft.	1" galv. pipe, threaded and coupled
	10	105 ft.	2" black pipe plain ends.
	13	113' 5"	4" black pipe plain ends.
	The following items are to be delivered by February 29, 1948 and will be shipped as soon as possible.		
	This will constitute the last and final shipment of piping and fittings for the penicillin plant. Total value \$144.71.		
	6	210 ft.	1" galv. pipe, threaded and coupled
	10	210 ft.	2" galv. pipe, threaded and coupled
	14	51 ft.	4" black pipe, threaded and coupled
	15	67 ft.	5" x 25 lbs. black pipe plain ends.

Balance cancelled
Balance cancelled
 CANCELLED

\$88.35

B/L UN3 Feb. 24/48

SHIPMENT OF PENCIL-LITE EQUIPMENT TO POLAND
 OR
 C.A.F. B-17581/EC-266

Manufacturer	Serial No.	Quantity Ordered	REMARKS	FAS US Value	SHIPMENT
General Electric Co. Ltd.	AL-2909	1	1411 Canadian Ingersoll Rand Class RB 1-MI Class 2 construction air compressor complete with accessories (price inclusive);		Actor June 18, 1949 N/L 24
			1 ea. Pilter, Air Inlet) These two items not included in original shipment 1 ea. Sumpberg Intake) on Actor, but were shipped later on the Tripport 1 ea. Receiver, Air, 42" H ²) N/L 70 - Nov. 14, 1947 1 ea. After Cooler, 80 H ² , with Safety Valves 1 ea. Motor, 60 H.P., 340/220V, 3 Phase, 50 cycle 1 ea. Compensator, Starting, for above 60 H.P. motor	\$0,908.65	
	PA-1	1	1 ea. 147 Canadian Ingersoll Class IS 1 pump and accessories (price inclusive);		
			1 ea. Motor, 20 H.P., 360/220V, 3 phase, 50 cycle including starting compensator. 1 ea. Bases, Sliding, for above motor.		
	AL-3011	2	15 H.P., 3 phase, 50 cycle, 1500 RPM, 260/220 V, 40°C rise, protected type E.S. Squirrel cage induction motors with normal starting torque and low starting current and 10 only bases for motors complete with starters.	\$ 496.04	Trinest N/L 22 Sept. 9, 1947
	AL-3012	3	Motor, 7/4 or 1 H.P. 3/0/220V, 3 phase, 50 cycle	\$ 122.00	March Cape N/L 18 May 6, 1947
	AL-3013	1	114 IND side suction centrifugal pumps, standard fitted with open type iron impeller, ball bearing, direct connected to 11 hp, 3 phase, 50 cycle, 220/380V, 1500 RPM standard surge-rated protected type motor, together with manual starting switch having thermal overload protection.	\$ 157.77	Actor N/L 46 June 12, 1947

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SHIPMENT OF PENICILLIN EQUIPMENT TO POLAND
ON
C.A.B. B-1788/UC-266

CONTRACT	Serial No.	Quantity Ordered	MATERIAL	FAS US Value	SHIPMENT
The Canadian Fairbanks Morse Co.	AI-3014	2	Fairbanks-Morse 1 1/2", Figure 553L, all iron centrifugal pumps mounted on base and direct connected through flexible coupling to and including an Electric Temper & Equipment Company 3 h.p. 3 phase, 50 cycle, 380/230V, 1500 RPM., 50°C rise, standard protected type electric motor.		Actor B/L 10 June 15, 1947
	AI-3014	1	Fairbanks-Morse 1", Figure 553L, all iron centrifugal pump mounted on base and direct connected through flexible coupling to and including an Electric Temper & Equipment Co. 1 1/2 h.p. 3 phase, 50 cycle, 380/230 V, 1500 RPM, 50°C rise, standard protected type electric motor.	\$ 653.96	
Tepler Instrument Companies of Canada, Ltd.	AI-3015 PA-1	1	Thermometer, Instrument Recording, #757223 Taylor, 2 pen Record, with left and right tube system, 20 ft. leads, with a 20" rigid 18-025 stem and union connection assembly. Range of instrument, 0-235°F., with over-range protection B chart No. 67-156. Thermometer, Recording, 2 pen, chart (same as above except for 10' leads & 22-3/4" stem).	\$ 664.66	Microscope B/L 1 Nov. 25, 1946
Johnson & Williams Ltd.	AI-3016 PA-1	2	Type 7E Agitators having 4 h.p., 300/230V, 3 phase, 50 cycle, 1500 RPM open protected motors stainless steel shaft, and propeller for use in tank 45" dia. x 4 ft. deep	\$ 322.86	Microscope B/L 4 May 19, 1947
The Toronto Iron Works, Ltd.	AI-3025 PA-1	2	Tanks, 7' x 15' Tanks, 40" dia. x 3' 2 5/8" plain steel complete with reducer motor coupling and slow coupling 90 RPM	\$ 6,906.03	Microscope B/L 4 May 6, 1947
General American Transportation Corp.	TR-2725	2	Turbo-Mixers, Impellers, quadruplex for agitation without motor. (MA-1687)	\$ 1,667.60	Jutlandia B/L 246 June 3, 1947
Anti-Biotics, USA, Feed & Drug		1	Sample pure penicillin G crystal form 164		
		1	Sample pure penicillin K crystal form 867 (non-standard)		Turned Over To Trainees

SHIPMENT OF PENICILLIN EQUIPMENT TO POLAND

ON C.E.B. B-1 10/20/56

CONTRACTOR	Serial No	Quantity Ordered	SERIAL	Value	SHIPMENT
Anti-Biotics, USDA, Feed & Drug (cont'd)		1	Sample standard streptococcus aureus POMP		
		1	Sample Bacillus Subtilis SE PC1-220		
Northern Regional Research Lab.		1	Sample penicillin chrysochroma 1904 K22		Turned Over to Trainees
		1	Sample penicillin notivatum G22		
		1	Sample Bacillus Nevins G2 X2 B541		
		1	Sample MWL 1612		
Madison Wisconsin		1	Sample I-1612 in soil		
		1	Sample culture E		
		1	Sample culture Q174		
Peabody Boiler Ltd.	AI-3017	1 only	60" dia. by 16'-0" low storage tanks welded construction made of 3/16" steel plate in shell & flatheads, with 16" bolted manhole four 2" screw-outlets and two 1/2" in each head. Painted two shop coats of paint outside only, all outlets to be plugged for shipping.	\$ 270.00	Marchport B/L #1 Jan 18, 1967
Swedish Copperworking Co., Ltd.	AI-3056 PA-2	1 only	50 gal. SS covered tanks with Conical Bottom & SS cooling coil This tank shipped without agitator and thermometer The agitator & thermometer for above tank was shipped with 500 gal. tank Contract AI 3107	\$ 454.26	Marchdale B/L #7 Nov. 4, 1966
	AI-3056 PA-2	120 only	Trays (Aluminum or Copper Construction) with individual compartments like egg crates for holding vials during freezing and drying.	\$1,443.92	Marchdale B/L #7 Nov. 4, 1966

SHIPMENT OF PENICILLIN EQUIPMENT TO POLAND
ON
C.A.B. B-1788/TC-266

SHIPMENT	SERIALS	Quantity	Material	Value	SHIPMENT
Taylor Instrument Co.	Al-3008 PA-2	2 only	Single Pen Taylor Recording Thermometers Chart No. CP 3008, Range 0-100°F 10' lead 18-8 SS Accuratus Tubing stem length 24" with one Trico Air Filter and one air reducing valve ½" and one Taylor Mono Steel Even Action Diaphragm valve.		Montclair N/L 17 Feb. 20, 1947
	Al-3008 PA-2	4 only	Single Pen Taylor Recording Thermometers Chart No. CP 3002, Range 0-100°F 10' lead, 18-8SS Accuratus tubing, stem length 20" with one Trico Air Filter and one air reducing valve ½" and one Taylor Mono steel Even Action Diaphragm valve.	\$ 1,922.32	
	PA-2	4 only	Taylor Gauge Thermometers		Marchape N/L 6 Nov. 23, 1946
Canadian Bridge Co., Ltd.	Al-3007	2 only	Autoclaves for steam sterilizing of Penicillin Vials, diameter 30", length 7'.	\$ 1,001.00	
Canadian Ice Machines Company	Al-3009	1 only	Canadian Ice Refrigerator Units (Compressor & Piping)	\$ 941.76	Triport N/L 23 Nov. 14, 1947
English Electric Co. of Canada Ltd.	Al-3060 PA-3	2 only	Squirrel Cage Motors, Frame 326, 18 h.p., 1800 RPM 230/200V, 3 phases, 50 cycle, 50 HZ. C. Rise, continuous rated, protected type, with antifriction bearings and with Sliding Base but without pulley.	\$ 414.26	Marchape N/L 23 May 6, 1947
United Steel Co., Ltd.	Al-3108	10	Belt Drive, Belt, Lodge V, for 15 h.p. motor, belt and pulley to fit on motor.	\$ 150.55	
		4	Sheaves		
Swedish Coppermithing Co. Ltd.	Al-3107 PA-1	2	Can Corn Oil, 10 Gall., complete with gauge and safety valve.	\$ 636.88	Actor N/L 58 June 15, 1947
Swedish Coppermithing Co. Ltd.	Al-3107	1	Tank, 360 U.S.-Gallon Stainless Steel with Coil	\$ 576.37	

SHIPMENT OF PHEMICILIN EQUIPMENT TO POLAND
C.A.B. - B1037/AK 289/57

CONTRACTOR	Serial Quantity No. Ordered	DESCRIPTION	FAS US Value	SHIPMENT
Richardson Agonico, Ltd.	AI-5018	1 only Tanks, closed, 300 US gal. 48" IDx36" jacketed glass lined with 2" insulation and steel sheathing, with agitator and 3/4 h.p. explosion proof motor and drive.	\$ 3,712.27	Montclair B/L 15 Feb. 20, 1947
	PA-1	3 only Tanks, 68, 400 US gal. 66" IDx30" with agitator and 1 h.p. explosion proof motor.	\$ 9,056.01	Acton B/L 27 June 15, 1947
	PA-1	1 unit Distillation Unit, glass lined, Pfandler, consisting of 50 gal. glass lined kettle, Pfandler #8-5144, 50 gallon glass lined receiver, Pfandler #8-5145, and 88 Tubularcondenser, Pfandler #8-5145C.	\$ 1,727.15	Mont Clair B/L 15 Feb. 20, 1947
	PA-1	2 only Tanks, 71L, 50 U.S. gallons glass lined, jacketed 24" IDx29" insulated, steel sheath, with agitator and 1 h.p. explosion proof motor.	\$ 2,166.03	Marcheaps B/L 17 May 6, 1947
	PA-1	3 only Tanks, Buffer, 300 gallon, 88, 40" x 68-5/8" with agitator and 3/4 h.p. explosion proof motor revised design of tank bottom and 40A baffles. (shipped less valves)	\$ 4,329.27	Marcheaps B/L 19 May 6, 1947
	PA-1	1 only Tanks, 100 US gallon, glass lined, jacketed, insulated and steel sheathed with agitator, baffle and 3/4 h.p. explosion proof motor.	\$ 1,824.01	Marcheaps B/L 17 May 6, 1947
PA-1	2 only Tanks, 50 U.S. gallon, glass lined	\$ 2,283.60	Triment B/L 21 Sept. 7, 1947	

Whiting Corp., Ltd.	AI-5019	4 Sharples 1GP Sweet Condenser Vapour Tight Model Pressure-tite belt drive with explosion-proof motors 6 separating bowls, 1 clarifying bowl, all 50"	\$14,919.24	Acton B/L 23 June 15, 1947
	PA-2	1 set Sharples Laboratory Model Centrifuge direct drive 88 bowls, 1 clarifying, 2 separating		

*Valves shipped ACTOR B/L #21 June 15/47 172.62

SHIPMENT OF MECHANICAL EQUIPMENT TO POLAND
C.333. 81887/UC 289/77

CONTRACTOR	Serial No	Quantity Ordered	MATERIAL	FAS US Value	SHIPMENT
Fischer and Porter Company	AI-3025	1 only	Broth Rotameters	\$ 429.39	Marchport B/L #20 Jan. 15, 1967
		1 only	Acetate Rotameters		
		1 only	Phosphoric Acid Rotameters		
		1 only	Rotameters for water		
J.P. Devins Mfg. Co. M. I. Porter Co., Inc.	AI-3024	5 only	Special No. 1A Devins Vacuum Chamber Drivers, each Cabinet to have 5 or 6 shelves.	4,886.09	Trinport B/L 17 Sept. 7, 1967
	PA-2				
Canadian Laboratory Supply	AI-3030	1 only	International size 2 oil testing centrifuge with 207 A Motor head	882.10	Actor B/L #29 June 15, 1967
		2 only	Model 40 SS 50-10 Brewer Automatic Pipetting Machines	360.67	Marchport B/L 15 Jan. 15, 1967
F.J.B. Howard & Co., Ltd.	AI-3022	1 only	Elliot four-stage steam with intercondenser operating 115 lb. steam pressure	5,030.07	Jatlandia B/L 261 June 2, 1967
	PA-2	1 only	Elliot three-stage steam ejector for use in starting operations.		
John Inglis Co., Ltd.	AI-3109	1 set	Pump set, consisting of:	2,872.00	Trinport B/L 20 Sept. 7, 1967
	PA-3		1 each Acetate Pump		
			2 each Broth Pump		
			1 each Strong Acetate Transfer Pumps		
			1 each Spont Acetate Transfer Pumps		
			1 each Wash Tanks & Solvent Filling Pumps		
			1 each Chloroform Pumps		
			1 each Spare Pumps		
			(10) 2 1/2" ES-10 St. Head gear pumps, 3/4 h.p. motors explosion proof SS gears, cast steel castings or equivalent		
			Acid pump 1/2" R pump, 10 gpm., 30' head, hard rubber 3/4 h.p. explosion proof		
Canadian Ingersoll Rand Co., Ltd.	AI-3108	1	4 ft. diameter by 2 ft. face Bird Young Universal filters all in accordance with proposal M-9913 Exp. 1775 of March 7.	7,836.40	Mont Sandra B/L 20 December 1, 1966
	PA-3				

SUBMIT OF BERYLLIUM EQUIPMENT TO POLAND
C.E.B. - B1887/UC 289/WT

CONTRACTOR	Serial Quantity No. Ordered	MATERIAL	FAS US Value	SHIPMENT
Richardson Agencies, Ltd.	Al-3045 3 PA-4	66 x 66" vertical Pfandler glass-lined steel storage tanks furnished with 2" of cork insulation completely covered with a 3/16" nichole and supporting legs. 2-3" openings and 1-2" opening.	15,566.97	Murebope B/L 22 Nov. 23, 1946
	Al-3045 1 PA-4	Pfandler Heat Exchangers (fixed tube sheet type as on pages 8 and 9 Pfandler Condenser Manual No. 837, type 304 stainless on the tube side and plain carbon steel on the shell side. Dimensions 7" for broth 2" flanged, for coolant circulation 3"-flanged. Tubes are type 304 stainless 66 e/4" OD 16 gauge 13'0" long. SS tube sheets 3/4" thick design pressure 75 lbs. 1 sq. in. both shell and tube sides.	1,740.58	Astor B/L 27 June 15, 1947
Chester A. Glenn Co. Washington	OP-8679 3	Pumps, 3 to 10 gpm, operating at a total working head of 20 feet, 1 1/2, 1 - 4 electropump, fitted for 1 - 1/2" suction and 1" discharge and powered by a 50 cycle, 230/440 volt, 3 pole electric motor.	418.00	Batory B/L 1 May 20, 1947
Harold Baber	TB-1237 3	Cold Storage Unit complete. Each unit to be complete with two self-contained refrigerating units and each refrigerating unit to have individual compressor, 3 h.p., 3 phase 220 volt, 50 or 60 cycle electric motor, air cooled condenser, blower type water defrosting evaporator. Each storage compartment is to have two swinging doors. The cold storage box approx. dimensions 12'10" by 24'4" by 7'6", to be made up of sections. The refrigerating unit should be fully 2 1/2' contained and manufactured in such a way that it would be possible to use them singly or in pairs. Units should be controlled from an integral control panel. Total capacity approx. 2340 cubic ft. With spare parts. (UA 2855)	6,446.00	Falstria B/L 303 Aug. 12, 1947
		1 set of spare parts	22.00	Falstria B/L 308 June 24, 1947

SHIPMENT OF PENICILLIN EQUIPMENT TO POLAND
C.I.R. - B1887/UC 289/77

CONTRACTOR	Serial No	Quantity Ordered	MATERIAL	Value	SHIPMENT
John Arman Air Conditioning Co., Inc.	TS-1278	8	Refrigerating unit, self contained, portable, complete with carrier compressor, 5 h.p. 220 volt, 50 or 60 cycle electric motor, air cooled condenser, blower type water defrosting evaporator. B.T.U. capacity with Freon 100 degree Ambient at 25 degree refrigerant - 18,000 B.T.U./hr. 100 degree Ambient at 10 degree refrigerant 8,900 B.T.U./hr. unit furnished should be same unit used with storage box above, also spare parts. (UA 2858)	\$6,116.00	Morocco B/L 8008 May 2, 1967
J. J. Stokes Co.	OP-2492	5	Vacuum Pump, Modelod	700.00	Morocco B/L 84 Feb. 12, 1967
The Best Co., Falls., Pa.	Tps 5555 PMA 2060 ea.	1,000,000 ea.	Stoppers, soft rubber, to fit 20cc penicillin bottles; #87 rubber stock composition, paraffined, to be stopper S-29. (UA-191/P91-L28-6)	4,253.00	Jylandia B/L 88-12 July 22, 1967
The Best Co., Phoenixville, Pa. (Richardson Agencies)	812	1 each	Machine, capping, semi-automatic with J.H.P. 60 cycle, 110/220 volt, AC motor; turret type Westemper designed to cap and crimp 20 mm size, triple seal aluminum caps of penicillin bottles, at the rate of 60 to 100 per minute. (UC 364)	4,920.17	Morocco B/L 24 Nov. 22, 1967
	812	500,000	Triple Seal Aluminum Caps	Not yet shipped - US\$061	
		500,000	Single Seal Aluminum Caps		Trinidad B/L 9 Sept. 7, 1967
Aluminum Co. of America	Tps 5465 PMA 2221	1,102,000 ea.	Closures, aluminum, 20 mm. size fitting No. S-29 rubber stopper for penicillin bottles 3 piece combination steri-cap, Aluminum Co. of America No. 27-120. (UA-191/P91 - L28-6)	5,050.65	Morocco B/L 81 April 16, 1967

SHIPMENT OF EQUIPMENT TO POLAND
C.A.F. - 015270C 2 DIFF

CONTRACTOR	Serial No	Quantity Ordered	MATERIAL	FAS US Value	EQUIPMENT
Norton Glass Co.	Tps 5125	6,984 gross	Vial, glass, hex-rhite, practical fill 20cc fill to base of neck, 2cc; O.D. 23mm, height 58mm, I.D. of neck 12mm. To be used type 1 glassware Model No. 8-205. (UA-191/P91 - Y85 5)	\$23,225.11	Normanork B/L US-26 April 16, 1947
	PMA 2170				
Products Refining Co.	Tps 542	74,076 lbs.	Steep water. Available from Corn Products Refining Co., 17, Battery Place, N.Y. (UA-191/P88 - DAC-21, 190 tons)	1,627.22 (26,205 lbs)	Normanork B/L US-66 Apr. 16, 1947
	PMA 2174			1,672.69 (27,875 lbs)	Normanork B/L US-46 May 2, 1947
		26 short tons	Same as above.	2,776.00	Cancelled
Hallinckrodt Chem. Works	Tps 6026	825 lbs.	Potassium dihydrogen phosphate (monobasic). Available from Hallinckrodt Chem. Works, St. Louis, Mo. (UA-191/P88 - DAC-21)	326.70	Normanork B/L US-42 April 16, 1947
	PMA 2227				
Northern Condensing Co.	Tps 6176	117,800 lbs.	Lactose (milk sugar) Commercial grade in 100 lb. drums. (UA-191/P88 - DAC-24)	23,972.30	Normanork B/L US-7 April 26, 1947
	PMA 2026				
Searle & Company	Tps 6312	11,452 lbs.	Penicillin defoaming agent (UA-2708)	4,946.68	Normanork B/L US-27 May 26, 1947
Out of Balance	PMA 2047	(200 lbs. phenol, USP, fused (acid carbolic))		36.14	Normanork B/L US-26 April 16, 1947
Out of Balance		(200 lbs. Magnesium Sulphate crystal)			

P.S.A.'s Out of Balance

SHIPMENT OF PENICILLIN MATERIALS TO POLAND
C.A.R. - 81887/DC 289/PT

CONTRACTOR	Serial quantity No Ordered	MATERIAL	FAS US Value	SHIPMENT
<u>PENICILLIN DERIV</u>				
J. T. Baker Chem. Co.	Tps 437 17,500 PMA 2476 lbs.	Chloroform, technical, avail. from Dow Chem. Co., Midland, Michigan (DA 191/768-DEC-21)	\$6,281.85	Norme KM B/L 3018 June 14, 1967
Wart Berry & Co., Ltd.	22-680 lbs.	Phosphoric Acid, 85% USP, Syrupy. Not available from American Agri. Chem. Co. (US-517) - Wreck	(21,500 lbs) 5,825.77 (1,060 lbs.) 291.44	W.S. Malotod B/L 3008 Nov. 14, 1967 Marshepsine B/L 3008 Nov. 15, 1967
British Govt. Contract	PG 263 1,000 lbs	Acid Phenylacetic	1,105.25	W.S. shipment from United Kingdom
J. T. Baker Chem. Co.	TS 1070 300 lbs	Sodium Hydroxide C.P. reagent, sticks. UA-2621	99.00	Jatlandia B/L 308 July 26, 1967
Robert Berry & Co., Ltd.	15,200 lbs.	Potassium Hydroxide, Technical flakes. 100% pkg. (UC-517)	3,061.11	Brush B/L 518 Dec. 4, 1967
P.S. Export Corp. N.Y.	CP 3962 9 lbs.	Acid Sulphuric C.P. concentrated, C.P. OP	1.40	Normesport B/L 087 April 16, 1967
Elvco Lab., Inc.	TS 1021 5x100 grams	Cystine L - Cystin - UA-8041	74.80	Normes B/L 6 June 7, 1967
Dupont & Bell Ltd.	24 lbs.	Trypsin 1.75 pancreas substance	20.00	Marsheps B/L 4 Nov. 21, 1967

SHIPMENT OF PERIODIC MATERIALS TO POLAND
C.N.B. - 31887/UC 2P3/FF

CONTRACTOR	Serial No	Quantity Ordered	MATERIAL	PAS US Value	SHIPMENT
1 Pfizer Labs., Inc.	TS-1071	10 Kilos	Pancreatic Extract (dried pancreas) UA-5041	\$ 842.00	Boryslaw B/L 8 June 7, 1947
2 Farbret Chem. Works	OP-3961	2 1/2 lbs.	Ferric Tartrate C.P.	6.08	Palatrinia B/L 528 May 6, 1947
3 Pfizer Lab., Inc.	TS-1071	12 lbs.	Reef extract UA-5041	56.00	Boryslaw B/L 8 June 7, 1947
4 Robert Berry & Co. Ltd.		2 lbs.	Clarazone (Diasotone) USP IX (UC-517)	10.55	Mont Sandra B/L 59 Dec. 28, 1947
5 New Zealand Govt. Contract	UZ 5/6	2 long tons	Lactose B.P. standard	704.00	Shipment made from New Zealand during November 1946
6 W. W. Fulp & Paper Co.	TS-1069	750 lbs.	Nuchar C 190 UA-5041	222.75	Palatrinia B/L 215 June 24, 1947
7 J. Baker Chem. Company	TS-1070	1,260 lbs.	Sodium Sulphate, anhydrous C.P. UA-5041	302.80	Cancelled
8 Gave & Co. Ltd.	217	700 lbs.	Glass wool, lead free and borax free, fine .0008 to .0005 in. Pyrex high stability. (UC-107)	1,875.46	Not Yet Shipped UN 5660
9 Caschemolevskiam Govt. Contract (R.S.G.)	PC-854	4.719 tons	Sodium nitrate USP VIII 0.5%	2,808.51	Shipped from Bragan July 14, 1947
10 Ingram & Bell Ltd.	UC 517	5,200 lbs.	Calcium Carbonate	240.54	Marcheape B/L 4 Nov. 21, 1947

PERIODIC MATERIALS (CONT.)

SHIPMENT OF PENICILLIN MATERIALS TO POLAND
C.I.B. - B1887/UC 289/77

CONTRACT	Serial No	Quantity Ordered	MATERIAL	FAS US Value	SHIPMENT
P.J.S. Export Corp., N.Y.	OP-3928	40 cms.	Acid, Para-aminobenzoic Cp	\$ 82.25	Normacort B/L 087 April 16, 1947
J. Am & Bell Ltd.		50 grams	Crystal Violet 85% Becto (UC-517)	2.17	Marchscope B/L 4 Nov. 21, 1947
Witte Lab., Inc.	28-1071	50 lbs.	Agar, granular or shreds, USP (UA-5041)	308.20	Beryelam B/L 8 June 7, 1947
Witte & Bell Ltd.		1.100 grams	Sodium Tyrolycolate (UC-517)	58.57	Marchscope B/L 4 Nov. 21, 1947
		22 lbs.	Casein powder	16.20	Cancelled
		20 cms.	Oil Immersion cedarwood, USP reagent	7.00	
		25 lbs.	Sodium hypochlorite Solution USP	8.75	
Case & Co. Ltd.	1218	2 ea.	Liquid Air trap Pyrex, O.D. 28mm dia. of connecting tube - 20 mm (UC-517)	42.20	Not Yet Shipped UN 6060
Standard Oil Co. of N.J.	OP-3904	5 gal.	Bearing lubricating oil. Pure paraffin oil. Viscosity 100 - 125 SSSU 100	2.00	Jutlandia B/L 244 June 2, 1947
Whalee Instrument Co.		5 yds.	Plastic tubing (Vinylite) O.D. 1". 1/16 inch wall	15.00	Cancelled
	28-940	2 ea.	Controls, thermostat, 50° - 100°F. capacity 110 C.F. (UA-3059)	658.78	Jutlandia B/L 251 June 3, 1947
Sharples Corporation Philadelphia, Pa.	OP-3664	40 ea.	Belts, Sharples Super Centrifuge (SP-100-719)	120.00	Normacella B/L 079 April 26, 1947

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SHIPMENT OF SPECIAL IN MATERIALS TO CANADA
C.E.B. - BIP07/DC 289/77

CONTRACTOR	Serial No	Quantity Ordered	MATERIAL	FAS US Value	SHIPMENT
Gamma Instrument Co., Inc.	78-635	2 sets	P.H. Meters, Lab. Model, Gamma Automat with accessories (UA-5024)	\$ 892.98	Jatlandia 2/1 584 June 2, 1967
Canadian Ingersoll Rand Co. Ltd.		6 ea.	Carbon rings, replacements for 14 x 11 Ingersoll Rand Class FS-1-ML Class 2 construction air compressors (UC-517)	199.85	Tripport 2/1 41 Nov. 14, 1967
Geco & Co. Ltd.	1470	1 ea.	Water distillation apparatus, 5 to 5 G.P.H. (UC-507)	897.29	Not Yet Shipped 2/1 907
		5 ea.	Cylinder Specor 12	100.00	Cancelled
Fluor Scientific Co., Ltd.	1476	20 doz.	Pipettes, Serological 5 cc ea., 1/10 graduations	110.40	Tripport 2/1 28
Fluor Scientific Co., Ltd.	1476	15 ea.	Flasks, volumetric, 50 cc ea. ground glass (UC-507) topper, eraz.	18.65	Nov. 14, 1967
Geco & Co., Ltd.	1470	1 ea.	Pumps, oil, vacuum canoo, Syvac-Vac. 4 h.p. motor, 220 V, 50 cycle. (UC 507)	227.76	Not Yet Shipped 2/1 284
Geco & Co., Ltd.	1470	1 ea.	Pumps, oil vacuum canoo mega, Vac. less meter 220 V, 50 cycle. (UC-507)		
Fluor Scientific Co., Ltd.	1476	1 ea.	Filters, pressure Seitz Biological 10 liter capacity each with 1 gross filter discs. (UC-507)	325.15	Tripport 2/1 28 Nov. 14, 1967
Canadian Lab. Supplies, Ltd.	1477	1 ea.	Counters, Quebec Colony Cenco, MM scale (UC-507)	41.24	Tripport 2/1 14 Nov. 14, 1967
		4 ea.	Platinum, loop	6.00	Cancelled
Fluor Scientific Co., Ltd.	1476	200 ft.	Tubing, rubber, heavy, wall, 1/2" exterior UC-507	40.28	Tripport 2/1 28 Nov. 14, 1967

SHIPMENT OF PERICULOUS MATERIALS TO POLAND
C.I.B. - B1887/UC 289/77

CONTRACTOR	Serial No	Quantity Ordered	MATERIAL	FAS US Value	SHIPMENT
Canadian Lab. Supplies, Ltd.	1477	6 ea.	Funnels, Separator, 5000 cc. stoppered globe (UC-507)	0 04.05	Not Shipped 2/2 58 Dec. 22, 1967
C. V. and Co. Ltd.	1470	6 ea.	Funnel, Buchner, Porcelain (not jacketed)	70.71	Not yet shipped 2/2 58
Fluor Scientific Co. Ltd.	1476	1 ea.	Oven, single wall 220 V. 50 C - AC (95705 A) WI Dekafinsky Regulator (UC-507)	100.00	Shipped 2/2 58 Nov. 14, 1967
Robert Berry & Co., Ltd.	1507	5078-8/6 gal.	Amyl Acetate (UC-516)	5,511.58	Shipped 2/2 58 Nov. 14, 1967
			300 gal.	1,440.00	Not Shipped 2/2 58 Nov. 22, 1967
			1,978 gal.	5,164.58	Reville's Lahn Vorkort 2/2 58 Nov. 14, 1967
			2,504 gal.	6,585.50	Shipped 2/2 58 Nov. 22, 1967
			156 gal.	504.74	Shipped 2/2 58 Nov. 22, 1967
Robert Berry & Co., Ltd.	2222	6,600 gal.	Amyl Acetate (UC-505)	16,157.19	Not Shipped 2/2 58 Dec. 22, 1967
			(4,324 gal.)		Not yet delivered (2,267 gal. App.)

SHIPMENT OF PARTS IN MATERIALS TO POLAND
 C.I.B. - 31089/UC 289/77
 EMERGENCY SPARE PARTS LIST

Serial No	Quantity Ordered	MATERIAL	UNIT PRICE	TOTAL VALUE
		Sharnles Centrifuge Spare Parts & Supplies for the #10F Centrifuge.		
8748	10 gal.	Bearing oil (PRMD 779 Pt. 8)	\$ 18.00	18.00
	10 lb.	Neovastane grease	2.40	24.00
	2 doz.	Ring Dam gaskets #155	79.80	159.60
	24 each	Bowl Boss Sleeves (monel) #40	4.00	96.00
	24 doz.	Bowl Bottom Gaskets #154	5.40	129.60
	6 each	Bowl Protecting Caps #325	9.00	54.00
	36 each	Three wing springs stainless steel #376	228.00	8208.00
	1 each	Drags, complete, stainless steel	18.00	18.00
	36 doz.	Bushings #43	3.00	108.00
	1 each	Drag springs #42 (stainless steel)	28.00	28.00
	4 each	Feed Nozzle - stainless steel, #354	1.40	5.60
	24 doz.	Feed Nozzle - gaskets #355	56.00	1344.00
	4 each	Ferrule cap - stainless steel #413	66.00	264.00
	2 each	Ferrule body - stainless steel #414	2.40	4.80
	48 doz.	Bullet cotton #561	16.00	768.00
	2 each	Brake assembly complete, Type 3, #327	90.00	180.00
	2 each	Bearing complete - #2 bearing		

James E. Maxwell
 2/1 2008
 Oct. 24, 1967

SHIPMENT OF VITAMIN MATERIALS TO POLAND
C.P.S. - 81897/UC 889/77
EMERGENCY SPARE PARTS LIST

CHARACTER	SERIAL NO	QUANTITY ORDERED	MATERIAL	FAB US VALUE	SHIPMENT
Sharples Corp.	Misc. 8743	2 each	Bearing sleeves #67 (DPMD 779 Pt. 8)	\$ 14.40	
		2 each	Sleeve nuts #68	1.80	
		4 each	Female clutch #70	18.00	
		18 each	Flexible coupling #75	8.80	
		2 each	Bearing washers #839	.80	
		18 each	Ball bearings #245	22.00	
		18 doz.	Bearing oil filters #721	.50	
		4 each	Male clutch #71	7.20	James B. Macdonald B/L 8001 Oct. 24, 1967
		18 doz.	Spindles, chrome plated, #72	115.20	
		4 each	Spindle - screws #74	8.80	
		1 each	Idler Assembly complete	55.00	
		6 each	Idler Ball bearings #305	14.40	
		18 each	Belt, chart #77	26.00	
Hubel, General Electric Co.	Misc. 8757	16 each	Mercurial Lamps, 0-1529, 15°, (DPMD 779 Pt. 9) 15 Watt.	58.98	
Taylor Instrument Co.	Misc. 8740	1 each	Taylor Fullscope Recording Temperature controller, Black case, face mounted bottom connected, 24 hour spring wound clock, reverse action, adjustable sensitivity; 12" chart. OP 4838, Range 0 - 150°C. over range protection, di each tube system 20 ft. mercury actuated capillary, 18/8 stainless steel bulb with rigid extension stem of 18/8 stainless steel 33" long including bulb, 18/8 including 3/4" thread hub nut, for full immersion; 100 charts, ink, etc., with all accessories, complete. (DPMD 779 Pt. 6)	498.10	Babory B/L 84 Dec. 10, 1967

SHIPMENT OF PENICILIN MATERIALS TO POLAND
C.O.S. - B1287/UC 889/77
EMERGENCY SPARE PARTS LIST

CONTRACTOR	Serial No.	Quantity Ordered	MATERIAL	Value	SHIPMENT
Taylor Instrument Co. (cont.)	Misc. 8740	1 each	12LW325 Same as item 1, except each tube system 10' and 18/8 stainless steel bulb with rigid extension stem of 18/8 stainless steel, 22 3/4" including bulb. (DPMD 779 Pt. 6)	\$ 476.90	
		1 each	12LW123 Same as item 1, except 1 pen and 1 control system; 10' mercury actuated tubing; 18/8 stainless steel bulb with rigid extension of 18/8 stainless steel, 22 3/4" long including bulb. (DPMD 779 Pt. 6)	\$54.95	
		3 each	413325 1/4" Reducing valves (DPMD 779 Pt. 6)	\$1.00	Battery 2 1/2 W4 Dec. 16, 1967
		3 each	R89417 Air Filter. (DPMD 779 Pt. 6)	19.80	
		3 each	5WC220 Taylor 1 inch Diaphragm valve, standard construction. (DPMD 779 Pt. 6)	112.80	
Parvaneh Rubber Co.		2 each	6VC226 Taylor 2 inch Diaphragm valve, standard construction. (DPMD 779 Pt. 6)	146.00	
	Misc. 8814	1 each	Batching Tanks, to be of carbon steel 3/16" plate, circular - 46" diameter, 60" high. To be mounted on 25" legs with threaded foot plates for leveling (DPMD 779 Pt. 6)		
		2 each	Air Filters (for Fermenters) Carbon steel 16" x 20" overall. Bottom 12" to be conical to 3/4" outlet equipped with globe valve, top to be flange and removable - vessel to be constructed of 16" standard pipe and tested to 16 p.s.i. - a 16" perforated plate to be installed at base of pipe for wool support and 16" perforated plate supported by flanged top to extend inside of pipe 18". Two 2" nipples to be welded to vessel diametrically opposite about 6" from top. 2" inlet placed just below bottom perforated plate; per blueprint attached. (DPMD 779 Pt. 5)		Normal Mail 2/1 2000 Nov. 16, 1967
	3 each	Air filters (for seed vessels) Carbon steel 6"x8" overall. (Cont. next page)			

SHIPMENT OF PENICILIN MATERIALS TO POLAND
 C.O.S. - B1887/UC 889/77
 EMERGENCY SPARE PARTS LIST

CONTRACTOR	Serial No.	Quantity Ordered	MATERIAL	Value	SHIPMENT
Taylor Instrument Co. (cont.)	Misc. 8740	1 each	181W325 Same as item 1, except each tube system 10' and 18/8 stainless steel bulb with rigid extension stem of 18/8 stainless steel, 22 3/4" including bulb. (DPMD 779 Pt. 6)	\$ 478.90	
		1 each	181W123 Same as item 1, except 1 pen and 1 control system; 10' mercury actuated tubing; 18/8 stainless steel bulb with rigid extension of 18/8 stainless steel, 22 3/4" long including bulb. (DPMD 779 Pt. 6)	254.95	
		3 each	41S525 1/4" reducing valves (DPMD 779 Pt. 6)	21.00	Battery 2/1 W4 Dec. 16, 1967
		3 each	R89P17 Air Filter. (DPMD 779 Pt. 6)	19.80	
		3 each	5VC225 Taylor 1 inch Diaphragm valve, standard construction. (DPMD 779 Pt. 6)	112.80	
		3 each	6VC226 Taylor 2 inch Diaphragm valve, standard construction. (DPMD 779 Pt. 6)	144.00	
Parsons Rubber Co.	Misc. 8814	1 each	Batching Tanks, to be of carbon steel 3/16" plate, circular - 46" diameter, 60" high. To be mounted on 28" legs with threaded foot plates for leveling (DPMD 779 Pt. 5)		
		2 each	Air Filters (for Fermenters) Carbon steel 16" x 24" overall. Bottom 12" to be conical to 3/4" outlet equipped with globe valve, top to be flange and removable - vessel to be constructed of 16" standard pipe and tested to 15 p.s.i. - a 16" perforated plate to be installed at base of pipe for wool support and 16" perforated plate supported by flanged top to extend inside of pipe 18". Two 2" nipples to be welded to vessel diametrically opposite about 6" from top. 2" inlet placed just below bottom perforated plate; per blueprint attached. (DPMD 779 Pt. 5)		Normal Mail 2/1 2000 Nov. 15, 1967
		3 each	Air filters (for seed vessels) Carbon steel 6"x24" overall. (Cont. next page)		

SHIPMENT OF PARTICULATE MATERIALS TO POLAND
C.E.B. - D1887/UC 289/77
EMERGENCY SPARE PARTS LIST

CONTRACTOR	Serial No	Quantity Ordered	MATERIAL	YAS US Value	DATE
Woods-Mellon Regulator Co.	Misc. 8788	2 each	2" #516 Back Pressure Regulators, cast iron body, flanged ends, PAD 250 $\frac{1}{2}$ Ex. Ry. Standard #304 18/8 Stainless Steel trim. Grease sealed lubricator, #1 Grease #7 case. Adjustable range 5-20 PSI, Controlling air 0-200 CFM. (DPM 779 Pt. 3)	\$ 495.00	Reseller Victory 2/2 2008 Dec. 18, 1967
		3 each	1/2" #516 Back Pressure Regulators, Cast Iron body, screwed ends, #304 18/8 Stainless Steel trim, Grease sealed lubricator, #1 Grease #9 Case, Adjustable range 2-7 PSI Valve open above 5 PSI, Controlling air 0-200 CFM. (DPM 779 Pt. 3)		
Robert P. Shaw Co.	Misc. 8787	1 each	Standard Assay Cup Dispensers (DPM 779 Pt. 2)	90.00	Amstar's Victory 2/2 2008 Oct. 18, 1967
		6 each	24" Stainless Steel Magazine Tubes, 7/16" O.D., 0.032" wall thickness. (DPM 779 Pt. 2)	12.90	
Professor Soren Machine Co.	Misc. 8789	2,500 each	Stainless Steel Penicylinders, .5125 O.D., .348 I.D., .400 length (DPM 779 Pt. 1)	185.00	Jubalanda 2/2 2008 Sept. 9, 1967
Robert Berry Co., Ltd.		1,000 lbs.	Tergitol (emulsion breaker) in drums suitable for export. (UC-571)	87.48	Italy - 2/2 US Dec. 18, 1967
1 Star Scientific Co., Ltd.		1 each	Seitz Filters, size 100 ml. (UC-579)	21.00	Marriage - 2/2 US Nov. 21, 1967
		1 each	Constant Temperature water baths, type for lab. easy work "Treas", size 160, 220 Volt. (UC-578)	171.18	Marriage - 2/2 US Nov. 21, 1967
		1 each	Lab Freeze-dry set-ups as per sketch provided Fisher Scientific Co. by Norsk. To include manifold connecting flasks and 2 trans/set. (UC-579)	152.76	Marriage - 2/2 US Nov. 21, 1967
		1 each	Barnstead Stillis, capacity 10 G.P.N., steam heated. (UC-579)	282.20	Not Yet Shipped US-579

SHIPMENT OF SPECIFIC MATERIALS TO POLAND
 C.J.B. - B1887/UC 289/77
 EMERGENCY SPARE PARTS LIST

CONTRACTOR	Serial No	Quantity Ordered	MATERIAL	VALUE	SHIPMENT
Pennwalt Rubber Co. (cont.)	Misc. 0814	3 each	Lower 8" to be conical to 1/8" outlet equipped with globe valve. Same specifications as above in previous portions dimensions. Outlets to be 1". See blue print attached. (DPM 779 Pt. 3)	\$ 880.00	Marshall 2/1 2003 Nov. 15, 1967
J. Bus & Porter Co.	Misc. 0741	3 each	Master Enclosed Floccators to have the following specifications: <u>METERING INSTRUMENT</u> , Figure # 784, Meter Size: 11, Connection size: 3/4, Connection type & Rating: Flanged Flat face; Material of fitting: Brass; Float Guide: Patented "Head Guide" tube with 3 raised glass ribs to center and to guide the float; Packing: Neoprene; Connections to Face: Inlet-left, Outlet-right, unless otherwise specified; Panel Mounting Fittings: None; metering tube: ELIAS, headed, 250 mm. scale; Type of scale & units: Direct reading; Float specifications: B6-11-1 of stainless steel. <u>FLUID SPECIFICATIONS</u> : Fluids: Air, Color & Transparency: Transparent; Specific Gravity: 1.00; Operating Procedure: Atmospheric; Coating Temperature: 70°F. <u>FLOW RANGE</u> : Maximum Flow: 200 CFM; Minimum Flow: 20 CFM. Includes outline drawings and pressure correction curves. (DPM 779 Pt. 4)	445.00	Pelsteria 2/1 200 Sept. 26, 1967
		3 each	Master Enclosed Floccators to have the following specifications: <u>METERING INSTRUMENT</u> , Figure # 784, Meter Size: 6, Connection Size: 3/4, Connection type & Rating: screwed; Material of Fitting: Brass; Float Guide: Patented "Head Guide" tube with 3 raised glass ribs to center and to guide the float; Packing: Neoprene; Connections to Face: Inlet-left, Outlet-right, unless otherwise specified; Panel Mounting Fittings: None; Metering Tube: ELIAS, headed, 250 mm. scale; Type of Scale & units: Direct reading; Float specifications: B6-68 of stainless steel. <u>FLUID SPECIFICATIONS</u> : Fluids: Air, Color & Transparency: Transparent; Specific Gravity: 1.00; Operating Procedure: Atmospheric; Operating Temperature: 70°F. <u>FLOW RANGE</u> : Maximum Flow: 200 CFM; Minimum Flow: 1.4 CFM. To include outline drawings and pressure correction curves. (DPM 779 Pt. 4)	190.00	

SUPPLEMENTARY REPORT
 SHIPMENTS OF PIPES AND FITTINGS FOR PENICILLIN EQUIPMENT TO POLAND

CONTRACTOR	QUANTITY SHIPPED	MATERIAL	FIG US VALUE	SHIPMENT
Greene & Co., Ltd.	UC 613	756 1" 1" type 304 C.D. stainless steel seamless tubing	1,273.46	AMARCO VIENNA B/L #3 Dec. 24/47
		302' 2 1/2" 2" type 304 C.D. " " " "	939.52	

The following items were all shipped on the Batony, B/L #U 1, January 22, 1948 packed in 6 boxes, gross weight, 1,723 lbs., value \$1,760.37

65	1" #18890 stainless steel unions
6	1 x 1/2 #18866 stainless steel hex. bushings
4	1 1/4 x 1 " " " "
6	1 x 1/2 " " " "
4	2 x 1 1/4 " " " "
6	1/2 x 1/4 " " " "
2	2" #18840 stainless steel gate valves SCD
11	3" #352 X std seamless steel 90° welding elbows
12	4" " " " "
16	6" " " " "
22	1/4" #55 1/2 all iron SCD globe valves
50	1/2" #355 all iron SCD globe valves
26	1 1/2" " " " "
13	2" " " " "
46	3/4" " " " "
3	1/4" #468 all iron SCD gate valves

The following items were all shipped on the Batony, B/L #U 1, February 19, 1948 packed in 26 boxes, gross weight, 10,844 lbs., value \$4,435.13

200	1/2 x 1 1/2" Sq. Hd. carbon steel machine bolts with hexagen nuts
50	1 1/2" #519 blk M.I. RR unions
50	1/4" " " " "
25	1/2" " " " "
60	3/4" " " " "
100	1" " " " "
50	1/2" #519 Galv. M.I. RR unions
24	1 1/2" Std. blk. C.I. Tee
50	1/2" " " " "

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Contract B-375 / 4-265

ITEM No.	Quantity	UNIT	DESCRIPTION	UNIT PRICE	TOTAL	REMARKS
1	210 feet	1/4" black iron, threaded and coupled		9.12		
2	115 feet	1/2" "		15.17		
3	252 feet	3/4" "		18.60		
4	158 feet	1 1/4" galv. pipe		15.07		Not yet shipped
6	100 feet	1" galv. pipe		56.92		
8	105 feet	1 1/2" black pipe		14.60		
9	126 feet	1 1/2" galv. pipe three feet and coupled		22.77		
13	63 feet	4" black pipe, plain ends		65.08		
15	84 feet	5" x 25 lbs. black pipe, both ends		142.45		
15	10 feet	1 1/2" x 25 lbs. black pipe, plain ends		66.05		
3	245 feet	3/4" black iron, threaded and coupled		18.90		
5	600 feet	1" "		62.28		
6	1,180 feet	1" galv. pipe		156.60		Not yet delivered
7	750 feet	1" stainless steel No. 304 pipe, seamless		1,470.75		
10	60 feet	2" galv. iron, threaded and coupled		171.66		
11	300 feet	2" stainless steel No. 304 pipe, seamless		1,098.00		
12	100 feet	3" black pipe, plain ends		44.21		

PAGE 01

SUBJECT OF PURCHASE ORDER # 1000000

C.O.P. A-1794/0-266

CONTRACTOR	ITEM No.	Quantity Ordered	MATERIAL	Unit Value	TOTAL VALUE
	13	237 feet	4" black pipe, plain ends	162.05	38,407.95
	14	300 feet	4" black pipe, plain ends	298.99	89,700.00
	15	116 feet	8" x 25 lbs. black pipe, plain ends	271.38	31,477.08
Grove & Co., Ltd.	7	756 1'	1" type 304 S.S. stainless steel seamless tubing	1,273.46	962,733.36
	11	302' 2"	2" type 304 S.S.	939.52	283,835.04
Lynn Corp.	31, 33, 37, 38, 39, 41, 44, 52, 51, 74, 77A, 77B, 78A		fittings	1,814.68	1,814.68
			Balance of piping & fittings	3,894.74	3,894.74

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EXHIBIT

305 NO
VALVE

AMERICAN ...

QUANTITY
UNITS

UNIT ACTION

75	1"	304	Std. G.I. Tee
12	1/4"	"	"
12	1/2"	"	"
12	3/8"	"	"
30	1"	"	"
50	1 1/4"	"	"
75	1 1/4 x 1 1/4 x 1/4"	Std. G.I. Red Tee	
6	1 1/2"	Std. G.I. Tee	
150	2"	"	"
50	1/2"	"	"
50	3/8"	"	"
100	1"	"	"
150	1 1/2"	"	"
50	1/2"	Std. G.I. Tee	
40	3/8"	"	"
28	1"	"	"
76	1 1/4"	"	"
17	1 1/2 x 1 1/2"	Std. G.I. Tee	
1	1 1/4"	"	"
1	1 1/4 x 1 1/4"	Std. G.I. Tee	
2	1 1/2"	Std. G.I. Tee	
1	1"	"	"
1	1 1/2"	Std. G.I. Tee	
1	1"	"	"
1	1 1/2"	Std. G.I. Tee	
2	1"	"	"
2	1 1/2"	Std. G.I. Tee	
75	1 1/2"	Std. G.I. Tee	
12	1"	"	"
1	1 1/2"	Std. G.I. Tee	
6	1"	"	"
45	1 1/2"	Std. G.I. Tee	
2	1"	"	"
26	1 1/2"	Std. G.I. Tee	
26	1"	"	"
20	1 1/2"	Std. G.I. Tee	
1	1"	"	"

Sparreholm B/L 801 Feb. 19, 1948
(continued)

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SHIPMENTS OF PIPES AND FITTINGS TO SOUTHERN PACIFIC AIRCRAFT EQUIPMENT TO WELAND

QUANTITY	SERIAL	VALVE	SHIPMENT
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60	4873	all iron gate valve	Sparshole B/L 601
40	4873	all iron gate valves 7 & 7AD air under water tested	Feb. 19, 1948 (continued)
80	4873	all iron gate valves 7 & 7AD air under water tested	
3 1/2	4873	all iron gate valves 7 & 7AD air under water tested	
2	2	2" x 2" x 2" flange stainless steel 304	
1	218558	stainless steel 304 degree 90 elbow	
1	218560	stainless steel 304 degree 90 elbow	
100	218540	gate valves B.D.	
20	218503	gate valves	
40	218589	comp. flanges 7AD	

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SHIPMENTS OF PIPES AND FITTINGS FOR CRUISESHIP EQUIPMENT TO IRELAND

Quantity
Shipped

Item Supply Company The following piping was shipped on the WILLIAM T. HENRY 3/1 2075, January 9, 1964, total value \$108,212.

Item No.	Quantity	Description
1	210 ft.	1 1/2" black pipe, threaded and coupled
2	215 ft.	1 1/2" "
3	247 ft.	3/4" "
4	168 ft.	3/4" galv.
5	280 ft.	1" "
6	109 ft.	1 1/4" black pipe threaded and coupled
7	176 ft.	1 1/4" galv. pipe threaded and coupled
8	65 ft.	4" black pipe plain ends threaded and coupled
9	93 ft.	4" x 25 lbs. black pipe, plain ends
10	20 ft.	12" x 50 lbs. "

The following piping was shipped on the WILLIAM T. HENRY 3/1 2075, February 6, 1964, total value \$2,595.00

Item No.	Quantity	Description
1	147 ft.	1 1/2" black pipe, threaded and coupled
2	210 ft.	1" "
3	786 ft.	1" galv. pipe threaded and coupled
4	31	1" stainless steel No. 304 pipe, seamless
5	104 ft.	2" stainless steel No. 304 pipe, seamless
6	69 ft.	3" black pipe, plain ends
7	68 ft.	4" "

The following piping was shipped on the WILLIAM T. HENRY 3/1 2075, February 6, 1964, total value \$22,46

Item No.	Quantity	Description
1	187'	3/4" black pipe, threaded and coupled
2	210'	1" "
3	210'	1" galv. pipe, threaded and coupled
4	64' 7"	4" black pipe, plain ends
5	91' 6"	6" black pipe plain ends

REQUEST FOR QUOTE FOR SUPPLY OF FITTINGS FOR EQUIPMENT AT PORT KAITUMA

ITEM	QUANTITY	MATERIAL
1	1	1/2" galv. pipe, threaded and coupled
2	2	1/2" galv. pipe, threaded and coupled
3	2	1/2" galv. pipe, threaded and coupled
4	2	1/2" galv. pipe, threaded and coupled
5	2	1/2" galv. pipe, threaded and coupled
6	2	1/2" galv. pipe, threaded and coupled
7	2	1/2" galv. pipe, threaded and coupled
8	2	1/2" galv. pipe, threaded and coupled
9	2	1/2" galv. pipe, threaded and coupled
10	2	1/2" galv. pipe, threaded and coupled
11	2	1/2" galv. pipe, threaded and coupled
12	2	1/2" galv. pipe, threaded and coupled
13	2	1/2" galv. pipe, threaded and coupled
14	2	1/2" galv. pipe, threaded and coupled
15	2	1/2" galv. pipe, threaded and coupled
16	2	1/2" galv. pipe, threaded and coupled
17	2	1/2" galv. pipe, threaded and coupled
18	2	1/2" galv. pipe, threaded and coupled
19	2	1/2" galv. pipe, threaded and coupled
20	2	1/2" galv. pipe, threaded and coupled
21	2	1/2" galv. pipe, threaded and coupled
22	2	1/2" galv. pipe, threaded and coupled
23	2	1/2" galv. pipe, threaded and coupled
24	2	1/2" galv. pipe, threaded and coupled
25	2	1/2" galv. pipe, threaded and coupled
26	2	1/2" galv. pipe, threaded and coupled
27	2	1/2" galv. pipe, threaded and coupled
28	2	1/2" galv. pipe, threaded and coupled
29	2	1/2" galv. pipe, threaded and coupled
30	2	1/2" galv. pipe, threaded and coupled
31	2	1/2" galv. pipe, threaded and coupled
32	2	1/2" galv. pipe, threaded and coupled
33	2	1/2" galv. pipe, threaded and coupled
34	2	1/2" galv. pipe, threaded and coupled
35	2	1/2" galv. pipe, threaded and coupled
36	2	1/2" galv. pipe, threaded and coupled
37	2	1/2" galv. pipe, threaded and coupled
38	2	1/2" galv. pipe, threaded and coupled
39	2	1/2" galv. pipe, threaded and coupled
40	2	1/2" galv. pipe, threaded and coupled
41	2	1/2" galv. pipe, threaded and coupled
42	2	1/2" galv. pipe, threaded and coupled
43	2	1/2" galv. pipe, threaded and coupled
44	2	1/2" galv. pipe, threaded and coupled
45	2	1/2" galv. pipe, threaded and coupled
46	2	1/2" galv. pipe, threaded and coupled
47	2	1/2" galv. pipe, threaded and coupled
48	2	1/2" galv. pipe, threaded and coupled
49	2	1/2" galv. pipe, threaded and coupled
50	2	1/2" galv. pipe, threaded and coupled
51	2	1/2" galv. pipe, threaded and coupled
52	2	1/2" galv. pipe, threaded and coupled
53	2	1/2" galv. pipe, threaded and coupled
54	2	1/2" galv. pipe, threaded and coupled
55	2	1/2" galv. pipe, threaded and coupled
56	2	1/2" galv. pipe, threaded and coupled
57	2	1/2" galv. pipe, threaded and coupled
58	2	1/2" galv. pipe, threaded and coupled
59	2	1/2" galv. pipe, threaded and coupled
60	2	1/2" galv. pipe, threaded and coupled
61	2	1/2" galv. pipe, threaded and coupled
62	2	1/2" galv. pipe, threaded and coupled
63	2	1/2" galv. pipe, threaded and coupled
64	2	1/2" galv. pipe, threaded and coupled
65	2	1/2" galv. pipe, threaded and coupled
66	2	1/2" galv. pipe, threaded and coupled
67	2	1/2" galv. pipe, threaded and coupled
68	2	1/2" galv. pipe, threaded and coupled
69	2	1/2" galv. pipe, threaded and coupled
70	2	1/2" galv. pipe, threaded and coupled
71	2	1/2" galv. pipe, threaded and coupled
72	2	1/2" galv. pipe, threaded and coupled
73	2	1/2" galv. pipe, threaded and coupled
74	2	1/2" galv. pipe, threaded and coupled
75	2	1/2" galv. pipe, threaded and coupled
76	2	1/2" galv. pipe, threaded and coupled
77	2	1/2" galv. pipe, threaded and coupled
78	2	1/2" galv. pipe, threaded and coupled
79	2	1/2" galv. pipe, threaded and coupled
80	2	1/2" galv. pipe, threaded and coupled
81	2	1/2" galv. pipe, threaded and coupled
82	2	1/2" galv. pipe, threaded and coupled
83	2	1/2" galv. pipe, threaded and coupled
84	2	1/2" galv. pipe, threaded and coupled
85	2	1/2" galv. pipe, threaded and coupled
86	2	1/2" galv. pipe, threaded and coupled
87	2	1/2" galv. pipe, threaded and coupled
88	2	1/2" galv. pipe, threaded and coupled
89	2	1/2" galv. pipe, threaded and coupled
90	2	1/2" galv. pipe, threaded and coupled
91	2	1/2" galv. pipe, threaded and coupled
92	2	1/2" galv. pipe, threaded and coupled
93	2	1/2" galv. pipe, threaded and coupled
94	2	1/2" galv. pipe, threaded and coupled
95	2	1/2" galv. pipe, threaded and coupled
96	2	1/2" galv. pipe, threaded and coupled
97	2	1/2" galv. pipe, threaded and coupled
98	2	1/2" galv. pipe, threaded and coupled
99	2	1/2" galv. pipe, threaded and coupled
100	2	1/2" galv. pipe, threaded and coupled

The following piping is in Rev Lett to be located on the first available vessel. Total value \$175,000.

- 1" black pipe, threaded and coupled
- 1" galv. pipe, threaded and coupled
- 2" black pipe, threaded and coupled
- 3" black pipe, plain ends

The following items are to be delivered by February 30, 1969 and will be shipped as soon as possible. This will constitute the last and final shipment of piping and fittings for the semiautomatic plant. Total value \$175,000.

- 1" galv. pipe, threaded and coupled
- 2" black pipe, plain ends
- 3" black pipe, plain ends

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SHIPMENT OF EQUIPMENT IN 3 SHIPMENTS TO UKIA BY
 CX
 C. F. B. P-1758/UC-266

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CONTRACTOR	Serial No.	Quantity Ordered	MATERIAL	FAS US Value	SHIPMENT
Canadian Ingersoll Rand Co. Ltd.	AL-2959	1	14x1 Canadian Ingersoll Rand Class NS 1 - HL Class 2 construction air compressors complete with accessories (price inclusive);		
		1 ea.	Filter, Air Inlet) these two items not included		
		1 "	Smubbers, Intake) in original shipment on Askold but later shipped SS Baku b/1 1205, Dec. 24/47		Askold May 31, 1947 B/L 1258
		1 "	Receiver, Air, 42" x 10'	\$8,908.65	
		1 "	After Coolers, 88 RE-2, with safety valves		
		1 "	Motor, 60 H.P., 380/220V, 3 phase, 50 cycle		
		1 "	Compensators, Starting, for above 60 H.P. motor		
	PA-1	1	14x7 Canadian Ingersoll Class ES 1 pump and accessories (price inclusive);		
		1 "	Motor, 20 H.P., 380/220 V. 3 phase, 50 cycle including starting; compensators		
		1 "	Bases, Sliding, for above motor		
Canadian Westinghouse Co. Ltd.	AL-3011 PA-1	2	15h.p., 3 phase, 50 cycles, 1500 RPM, 380/220 volt 400 rise, protected type H.S. squirrel cage induction motors with normal starting torque and low starting current and 10 only bases for motors complete with starters.	\$ 496.04	Cheluskine's Oct. 3, 1947 B/L 1208
Leland Electric Canada Ltd.	AL-3012 PA-1	3	Motors, 3/4 or 1 H.P. 380/220 V. 3 phase, 50 cycle.	\$ 122.00	Frederick Engels APR. 22, 1947 B/L 1230
The Smart Turner Machine Co. Ltd.	AL-3013 PA-1	1	1 1/2 LMC side suction centrifugal pumps, standard fitted with open type iron impeller, ball bearings, direct connected to 1/2H.P. 3 phase 50 cycle, 220/380 volts, 1500 RPM standard impregnated protected type motor, together with manual starting switch having thermal overload protection	\$ 157.77	Svesaples July 19, 1947 B/L 1224

SHIPMENTS OF PENICILLIN IN EQUIPMENT TO UKRAINE

C.S.B. B-1758/UC-266

CONTRACTOR	Serial No.	Quantity Ordered	MATERIAL	FAS US Value	SHIPMENT
The Canadian Fairbanks Morse Co.	AI-3012	2	Fairbanks-Morse 1/2", Figure 5531, all iron centrifugal pumps mounted on base and direct connected through flexible coupling to and including an Electric Tamper & Equipment Company 3 h.p. 3 phase, 50 cycle, 380/220 volts, 1500 RPM., 50°C rise, standard protected type electric motor		See samples July 19, 1947 B/L 1223
Taylor Instrument Companies of Canada, Ltd.	AI-3014	1	Fairbanks-Morse 1", Figure 5531, all iron centrifugal pump mounted on base and direct connected through flexible coupling to and including an Electric Tamper & Equipment Company 1/2 h.p. 3 phase, 50 cycle, 380/220 volt, 1500 RPM, 50°C rise, standard protected type electric motor.	\$ 833.96	
Taylor Instrument Companies of Canada, Ltd.	AI-3015 PA-1	1	Thermometer, Instrument Recording, #76, #223 Taylor, 2 pen Record, with left and right tube system, 20ft. leads, with a 33" rigid 18-888 stem and union connection assembly. Range of instrument, 0-225°F., with cover-range protection D chart No. OP-136.		Alfred Victory Jan. 3, 1947 B/L 9
Delamere & Williams Ltd.	AI-3016 PA-1	2	Thermometer, Recording, 2 pen, chart (same as above except for 10' leads & 22-3/4' stem).	\$ 654.85	
The Toronto Iron Works, Ltd.	AI-3055 PA-1	2	Type "F" Agitators having 1/2 h.p., 380/220 volt 3 phase 50 cycle, 1500 RPM open protected motors stainless steel shaft, and propeller for use in tank 45" dia. x 4ft deep.	\$ 128.86	See samples July 19, 1947 B/L 1221
General American Transportation Corp.	TPA-2733	3	Tanks, 7' x 15' Tanks, 40" dia. x 3' 2 5/8" plain steel complete with reducer motor coupling and slow coupling 90 RPM Turbo-Mixers, impellers, quadruplex for agitation without motors. (UA 1687)	\$6,905.02 \$1,887.60	Baku May 21, 1947 B/L 1215 Baku
Anti-Biotics, USDA Food & Drug		1	Sample pure penicillin O crystal form 1667		May 21, 1947 B/L 1211
		1	Sample pure penicillin K crystal form 85% (non-standard) Turned over to trainees.		

SHIPMENT OF PENICILLIN EQUIPMENT TO UKRAINE
ON
C.S.B. B-1758/UC-266

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CONTRACTOR	Serial No.	Quantity Ordered	MATERIAL	FAS US Value	SHIPMENT	
Anti-Biotics, USDA, Food & Drug (continued)		1	Sample standard streptococcus aureus 209P			
		1	Sample Bacillus Subtilis SD PCI-220			
	Northern Regional Research Lab.		1	Sample penicillin chrysogenum 1964 B22		
			1	Sample penicillin notatum 632		
			1	Sample Bacillus Bovis Dabco B-41		
			1	Sample BRRL 1612		
Madison Wisconsin		1	Sample K-1612 in soil			
		1	Sample culture E			
		1	Sample culture Q176		Turned over to Trainees	
Pendell Boiler Ltd.	AL-3017	1	60" dia. by 15'-0" long storage tanks welded construction made of 3/16" steel plate in shell 1/2" flatheads, with 16" bolted manhole four 2" screwed outlets and two 1/2" in each head. Painted two epoxy coats of paint outside only, all outlets to be plugged for shipping	\$ 270.88	Creedy S. Hayes Dec.23, 1946 B/L 18	
Terrace Coppermithing Co. Ltd.	AL-3056 PA-2	1	50 gal. SS covered tanks with Conical Bottom & SS cooling coil (This tank shipped without agitator & Thermometer) (The agitator & thermometer for above tank was shipped with 350 gal. Tank Contr. AL-3107)	\$ 434.36	American Victory Dec.13,1946 B/L 35 Frederick Engels Apr.22, 1947 B/L 1251	
	AL-3056 PA-2	120	Trays (Aluminum or Copper Construction) with individual compartments like egg crates for holding vials during freezing and drying	\$1,443.92	American Victory Dec.13, 1946 B/L 36	

SHIPMENTS OF PENICILLIN EQUIPMENT TO UKRAINE

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C.S.B. B-1758/UC-266

CONTRACTOR	Serial No.	Quantity Ordered	MATERIAL	FAR US Value	SHIPMENT
Taylor Instrument Co.	Al-3058 PA-2	2 only	Single Pen Taylor Recording Thermometer's Chart No. OP 3502, Range 0-300°F 10' lead 18-8 SS Accuratus Tubing stem length 24" with one Trico Air Filter and one air reducing valve #5 and one Taylor Mono Steel Even Action Diaphragm valve.		American Victory March 24, 1947 B/L 3
	Al-3058 PA-2	4 only	Single Pen Taylor Recording Thermometers Chart No. OP 3502, Range 0-100°F. 10' lead, 18-8SS Accuratus Tubing, stem length 20" with one Trico Air Filter and one air reducing valve # 5 and one Taylor Mono Steel Even Action Diaphragm valve.	\$1,922.32	
Demilion Bridge Co., Ltd.	PA-2	4 only	Taylor Gauge Thermometer's		
	Al-3057	2 only	Autoclaves for steam sterilising of Penicillin Vials, diameter 30", length 7'.	\$1,691.80	American Victory Dec. 13, 1947 B/L 31
Canadian Ice Machine Company	Al-3059	1 only	Canadian Ice Refrigerator units (Compressor & Piping)	\$ 541.76	Cheerdogov Nov. 14, 1947 B/L 1203
English Electric Co. of Canada Ltd.	Al-3060 PA-3	2 only	Squirrel Cage Motors, Frame 326, 1ph.p. 1500 RPM 220/380 volt, 3 phase, 50 cycle, 50°C. Rise, continuous rated, protected type, with antifriction bearings and with Sliding Base but without pulley	\$ 414.26	Sveasaples July 19, 1947 B/L 1220
	Al-3108	10	Belt Drive, Belt, Dodge V., for 15 h.p. motor, belt and pulley to fit on motor		Not yet shipped Availability UN 6137
Toronto Coppermithing Co. Ltd.	Al-3107 PA-1	2	Sheaves Can Corn Oil, 10 gal., complete with gauge and safety valve.	\$ 180.53	
	Al-3107	1	Tank, 350 U.S.Gallon Stainless Steel with Ceil	\$ 693.83	Frederick Engels Apr. 22, 1947
Toronto Coppermithing Co. Ltd.	Al-3107	1		\$ 570.27	B/L 1253

SHIPMENTS OF PENICILLIN EQUIPMENT TO UKRAINE

ON
C.I.B. - B1887/UC 289/77

CONTRACTOR	Serial Number	Quantity Ordered	MATERIAL	FAS US Value	SHIPMENT	
Richardson Agencies, Ltd.	AI-3018	1 only	Tanks, closed, 200 U.S. gal. 42" IDx36" jacketed glass lined with 2" insulation and steel sheathing, with agitator and 3/4 h.p. explosion proof motor and drive.	\$3,712.27	Coeur D'Alene Victory Jan. 25, 1947 B/L 33	
	PA-1	3 only	Tanks, SS, 400 U.S. gal. 48" x 60" with agitator and 1 h.p. explosion proof motor.	9,036.61	Ashold May 31, 1947 B/L 12819 Coeur D'Alene	
	PA-1	1 unit	Distillation Unit, glass lined, pfmuller, consisting of 50 gal. glass lined kettle, pfmuller #5-51449, and 50 gal. glass lined receiver pfmuller #5-51451, and SS tubular condenser. Pfmuller #5-51450.	\$1,727.15	Victory Jan. 25, 1947 B/L 33	
	PA-1	2 only	Tanks, mix, 50 U.S. gallon, glass lined, jacketed 24" ID x 29" insulated, steel sheath, with agitator and 1 h.p. explosion proof motor.	\$1,168.52	Ashold May 31, 1947 B/L 1286	
	PA-1	3 only	Tanks, buffer, 200 gal. SS, 40"x38-5/8" with agitator and 3/4 h.p. explosion proof motor revised design of tank bottom and add baffles. (shipped from Valys)	\$6,329.37	Bozda March 15, 1947 B/L 1228	
	PA-1	1 only	Tanks, 100 US gallon, glass lined, jacketed, insulated and steel sheathed with agitator, baffle and 3/4 h.p. explosion proof motor.	\$1,824.01	Vladivostok May 15, 1947 B/L 1228	
	PA-1	2 only	Tanks, 50 U.S. gallon, glass lined	\$3,283.60	General Chernobrovsky June 30, 1947 B/L 1233	
	Whiting Corp., Ltd.	AI-3019	4	Sharples 16" Super Centrifuge Vapour Tight Model	\$16,919.34	Ashold May 31, 1947 B/L 1235
		PA-2	6 separating bowls, 1 clarifying bowl, all SS			
			1 Set	Sharples Laboratory Model Centrifuge direct drive SS bowls, 1 clarifying, 2 separating		

SHIPMENTS OF PENICILLIN EQUIPMENT TO UKRAINE
C.I.B. -B-1837/UC 289/FF

CONTRACTOR	Serial No	Quantity Ordered	MATERIAL	FAS US Value	SHIPMENT
Fischer and Porter Company	Al-2025	1 only	Broth Rotometers		Crosby S. Moyes
		1 only	Acetate Rotometers		Dec. 23, 1947
		1 only	Phosphoric Acid Rotometers		B/L 12
		1 only	Rotometers for water	\$ 429.39	(2 each) Chelustiknets
W.A. Coyle, J.P. Devine Mfg. Co. Division, R.K. Porter Co., Inc.	Al-3024	5 only	Special No. 1A Devine Vacuum Chamber Driers, each Cabinet to have 5 or 6 shelves.	\$ 4,586.09	Oct. 30, 1947
	PA-2				B/L 1214
			(3 ea.) Chelustiknets		Oct. 30, 1947
			B/L 120A		
Canadian Laboratory Supply	Al-3020	1 only	International size 2 oil testing centrifuge with 267 A Mitar head	\$ 512.10	Sveanles
					July 19, 1947
		2 only	Model 40 US 50-10 Brewer Automatic Pipetting Machine	\$ 360.87	B/L 1222
					American Victory
					Dec. 13, 1946
					B/L 3A
P.S.B. Howard & Co., Ltd.	Al-3022	1 only	Elliot Four-stage steam with intercondenser operating 115 lb. steam pressure		Baku
	PA-2				May 21, 1947
		1 only	Elliot three-stage steam ejector for use in starting operations.	\$ 1,050.07	B/L 39A
John Inglis Co., Ltd.	Al-3109	1 set	Pump, set, consisting of:		Chelustiknets
	PA-3		1 each Acetate Pump		Oct. 3, 1947
			1 each Broth Pump		B/L 1209
			2 each Strong Acetate Transfer Pumps		
			1 each Spent Acetate Transfer Pumps		
			1 each Wash Tanks & Solvent Filling Pumps		
			1 each Chloroform Pumps		
			1 each Spare Pumps		
			(10 gpm 25-30 ft. Head gear pumps, 3/4 h.p. motors explosion proof SS gears, cast steel casings or equivalent.		
		1 set	Acid pump gear pump, 10 gpm., 30' head, hard rubber	\$ 2,872.00	
			3/4 h.p. explosion-proof		
	Al-3109				
	PA-3				

CONTRACTOR	Serial No	Quantity Ordered	MATERIAL	FAS US Value	SHIPMENT
Canadian Ingersoll Rand Co., Ltd.	AI-2958 PA-3	1	4 ft. diameter by 2 ft. face bird Young Universal filters all in accordance with proposal M-9913 Exp. 1773 of March 7.	\$7,258.40	American Victory Dec. 13, 1946 B/L 17
	AI-3045 PA-4	3	60x66" vertical pfauler glass-lined steel storage tanks furnished with 2" cork insulation completely covered with a 3/16" manhole and supporting legs. 2-3" openings and 1-2" opening	\$5,566.97	Terre Haute Victory Jan. 8, '47 B/L 17 Coeur d'Alene Victory Jan. 25, 1947 B/L 32
Chester A. Olson Co. Washington	AI-3045 PA-4	1	Pfauler Heat Exchangers (fixed tube sheet type as on pages 8 & 9, pfauler Condenser Manual No 837, type 304 stainless on the tube side and plain carbon steel on the shell side. Dimensions "J" for broth 2" flanged, for coolant circulator 3" flanged. Tubes are type 304 stainless 66 c/4" OD 18 gauge 12" o" long, 3 tube sheets 3/4" thick design pressure 75 lbs. 1 sq. in. shell and tube sides.	\$1,740.58	Askold May 31, 1947 B/L 1290
	CP 3599	5	Pumps, 3 to 10 gpm, operating at a total working head of 20', 1 1/4" 1/4-4 electro-pump, fitted for 1-1/4" suction and 1" discharge and powered by a 50 cycle 220/440 volt, 2 pole electric motor	\$18,000	Christopher Geddes May 12, 1947 B/L 9-3
L. & N- Industries & Trading Corp. Harold Rator	TS 1257	5	Cold Storage Unit Complete. Each unit to be complete with two self-contained refrigerating units and each refrigerating unit to have individual compressor, 3 h.p., 3 phase, 220 volt, 50 or 60 cycle electric motor, air cooled condenser, blower type water defrosting evaporator. Each storage compartment is to have two swinging doors. The cold storage box approx. dimensions: 12'10" by 24'4" by 7'6", to be made up of sections. The refrigerating unit should be fully self contained and manufactured in such a way that it would be possible to use them singly or in pairs. Units should be controlled from an integral control panel. Total capacity approx. 2340 cubic ft With spare parts. (Us 2855)	\$6,435.00	Christopher Geddes May 19, '47 B/L 0-15 (3 refrig. units & 2 refrig. cabinets) (1 refrig. cabinet (short shipped, re-geared) shipped to Marseille France Ford Rhodes July 21, '47 & transhipped to American Victory for Constanza Sept. 11 - Transhipped again from Constanza to Odessa.)

(1 set of Spare Parts) General Chernakhovaly
June 30, 1947
B/L 1208

SHIPMENT OF PENICILLIN MATERIALS TO UKRAINE

C.E.B. B-1887/ac 289/TF

CONTRACTOR	Serial No	Quantity Ordered	MATERIAL	FAS US Value	SHIPMENT
John Auman Air Conditioning Co. Inc.	TS-1258	8	Refrig. unit, self contained, portable, complete with carrier compressor, 3h.p. 220volt, 50 or 60 cycle electric motor, air cooled condenser, blower type water defrosting evaporator. B.T.U. capacity with freon. 100 degree Ambient at 25 degree refrigerant - 19,000 B.T.U./hr. 100 degree Ambient at 10 degree refrigerant 8,950 B.T.U./hr. unit furnished should be same unit used with storage box above, with spare parts. (UA 2855)	\$6,116.00	Vladivostok May 19, 1947 B/L 1212
F.J. Stokes Co.	CP-3492	5	Vacuum Gauge, McLeod	\$ 400.00	Michael Furse Feb. 25, '47 B/L 1246
The West Co., Phila., Pa.	Tps 5355 P & A 2563	1,000,000	Stoppers, soft rubber, to fit 20cc penicillin bottles. #87 rubber stock composition, paraffined, to be stopper S-29. (UA-191/P91-LES-6)	\$4,235.00	General Chernakbovsky June 30, 1947 B/L 312
The West Co. Phoenixville, Pa. (Richardson Agencies)	812	1 each	Machine, capping, semi-automatic with 3h.p. 60cycle, 110/220 volt, AC motor, turret type Westcap, per design to cap & crimp 20 mm size, triple seal aluminum caps of penicillin bottles, at the rate of 60 to 100 per minute. (UC 364)		Not yet shipped A aliability UN - 5064
Aluminum Co. of America	Tps 5465 P & A 2224	500,000 1,100,000 es.	Triple Seal Aluminum Caps Single Seal Aluminum Caps Closures, aluminum, 20mm; size fitting No. S-29 rubber stopper for penicillin bottles 3 piece combination stericap, Aluminum Co. of America No. 20-120, (UA-191/P91 - LES-6)	\$ 4,720.17 \$5,030.63	General Chernakbovsky June 30, 1947 B/L 311
Wheaton Glass Co.	Tps 5123 P & A 2172	6,954 Gross	Vial, glass, borosilicate, reactical fill 20cc fill to base of neck, 24cc; O.D. 32mm. height 58mm. I.D. of neck 12mm. To be USP type 1 glassware Model No. 5-205. (UA-191/P91 - LES 5)	\$23,221.27	Bahn May 21, 1947 B/L 361

SHIPMENT OF PENICILLIN MATERIALS TO UKRAINE

CONTRACTOR	Serial No.	Quantity Ordered	MATERIAL	FAS US Value	SHIPMENT
Corn Products Refining Co.	Tps 542 P & A 2212	75,374 lbs	Steep water. Available from Corn Products Refining Co. 17, Battery Pl., N.Y. (UA-191/P88) D & C-21/190 tons)	\$3,328.88	Bahn May 21, 1947 B/L 335
		35 short tons	Same as above	\$2,776.00	Cancelled
Mallinckrodt Chem. Works	Tps 6026-825 P & A 2230	825 lbs.	Potassium dihydrogen phosphate (mono-basic). Available from Mallinckrodt Chem. Works, St-Louis Mo, (UA-191/P88 - D&C-21)	\$ 326.70	General Chernathovskiy June 30, 1947 B/L 311
Western Condensing Co.	Tps 6176 P & A 2029	117,800 lbs	Lactose (milk sugar) Commercial grade in 100 lb. drums. (UA-191/P88-D&C-24)	\$23,972.30	American Victory March 24, 1947 B/L 48
Swift & Company	Tps 6312	11,504 lbs	Penicillin deforming agent (UA-2768)	\$4,978.54	Medivostok May 19, 1947 B/L 1252
			P 3MA'd Out of Toledo		
Out of Toledo	PEA 2044	576 pairs	Dish, Petri, top 100 x 15 mm. bottom 95x15mm free	\$36.14	Bahn May 21, 1947 B/L 364
		200 lbs.	Phenol, USP, fused (acid carbolic)		
		200 lbs.	Magnesium Sulphate crystal		
New Zealand Govt. Contract	US 3/6	2 long tons	Lactose B.P. Standard	704.00	Shipment made from New Zealand during January 1947

SHIPMENTS OF PENICILLIN MATERIALS TO UKRAINE

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CONTRACTOR	Serial No.	Quantity Ordered	MATERIAL	FAS US Value	SHIPMENT
J.F. Baker Chemical Co.	Tps.437 P & A 2478	16,900 lbs	Chloroform, technical, avail, from dew Chem.Co. Midland, Michigan (UA 191/P88-RAC-21) PENICILLIN DERIVS	\$1,160.30	General Chernakovsky June 30, 1947 B/L 1286
Robert Berry & Co. Ltd.		22,320 lbs	Phosphoric Acid, 85% USP, Syrupy. Not available from American Agri.Chem.Co.(UC-517)-Marok	\$6,021.06	Baku B/L #212 Dec. 24, 1947
British Govt. Contract	PC 383	1,000 lbs	Acid Phenylacetic (HRO)	\$1,108.25	BELOOSTROV B/L #52 Oct. 7/47 from England
J.F. Baker Chemical Co.	TS 1070	400 lbs	Sodium Hydroxide C.P. reagent, sticks.UA-3041	\$ 132.00	Sveseples July 19, 1947 B/L 1201
Robert Berry & Co. Ltd.		14,800 lbs	Sodium Hydroxide, technical (lakes.100# pkg. (UC-517))	\$2,980.56	Not Yet Shipped Availability UN 6150
P.H.R. Export Corp. N.Y., N.Y.	OP 3952	9 lbs	Acid Sulphuric C.P. concentrated, C.P. CP	\$ 1.40	Frederick Engels April 22, 1947 B/L 1289
Difco Lab., Inc.	TS 1071	8x100 grams	Cistine L - Cystin - UA 3041	\$ 74.80	Askold - May 31, 1947 B/L 1282
Ingram & Bell, Ltd.	UC 517	2.12 lbs	Trypsin 1.75 Pancreas substance	\$ 820.00	Not Yet Shipped Availability UN 5673
Difco Labs., Inc.	TS-1071	10 kilos	Pancreatic Extract (dried pancreas) UA-3041	\$ 242.00	Askold - May 31, 1947 B/L 1282
Mallinckrodt Chemical Works	OP-3951	2 1/2 lbs.	Forric Tartrate C.p	\$ 6.68	Askold - May 31, 1947 B/L UN 1289
Difco Lab., Inc.	TS-1071	12 lbs.	Beef extract UA-3041 (Beato)	\$ 56.50	Askold - May 31, 1947 B/L 1282
Ingram & Bell, Ltd.		1 lb.	Clarazo (Diastase) USP IX (UC-517)	\$ 5.27	Not Yet Shipped Availability UN 5942
W. Va. Pulp & Paper Co.	TS-1069	650 lbs.	Nuchar C 190 N UA-3041	\$ 193.05	General Chernakovsky June 30, 1947 B/L 1211
J.F. Baker Chemical Co.	TS-1070	1,260 lbs.	Sodium Sulphate, anhydrous C.P. UA-3041	\$ 352.80	Cancelled
Cave & Co. Ltd.	217	600 lbs.	Glass wool, lead free and borax free, fine.0002 to. 0003 in. Pyrex high stability.(UC-507)	\$1,093.25	Not Yet shipped Availability UN 5664

SHIPMENTS OF PENICILLIN MATERIALS TO UKRAINE

CONTRACTOR	Serial No.	Quantity Ordered	MATERIAL	FAS US Value	SHIPMENT
Oseboelovskian Govt. Contract (B.R.O.)	FC-354	4,719 tons	Sodium nitrate USP VIII 0.3%	\$2,808.91	Shipped from Prague to Kiev - June 30, 1947 - EMO
P.M.R. Export Corp., N.Y.	OP-3952	40 oss.	Acid, Para-aminobenzene OF	\$ 82.25	Frederick Engels April 22, 1947 B/L 1288
Ingram & Bell, Ltd.		50 grams	Crystal Violet 8% Naoto (UC-517)	\$ 2.17	Not Yet Shipped Availability UN 5765
Difco Lab., Inc.	TS-1071	50 lbs.	Agar, granular or shreds, USP (UA-3041)	\$ 302.50	Ankhold - May 31, 1947 B/L 1282
Ingram & Bell, Ltd.		1,100 gms.	Sodium Thyoglycolate (UC-517)	\$ 38.71	Not Yet Shipped Availability UN 5765
		22 lbs.	Casein powder	\$ 16.50	
		20 oss.	Oil Immersion cedarwood, USP reagent	7.00	CANCELLED
		25 lbs.	Sodium hypochlorite Solution USP	8.75	
Cass & Co. Ltd.	1515	2 each	Liquid Air trap Pyrex, O.D. 28 mm dia. of connecting tube - 20mm (UC-517)	\$ 42.20	Not Yet Shipped Availability UN 6063
Standard Oil Co. of N.J.	OP 3954	5 gals	Bearing lubricating oil, Pure paraffin oil, Viscosity 100 - 125 SAE 100	\$ 12.50	Ankhold-May 31-1947 B/L 1282
		5 yds.	Plastic tubing (Vinylite) O.D. 1" 1/16 inch wall	\$ 15.00	CANCELLED
Wheeler Instrument Co.	TS-740	2 ea.	Controls, thermostat, 50° - 100° F. Capacity 110 C.F. (UA-3059)	\$ 558.78	Ankhold - May 31, 1947 B/L 1216
Ingram & Bell, Ltd.	UC-517	5,200 lbs.	Calcium Carbonate	\$ 249.34	Not Yet Shipped Availability UN 5765

SHIPMENTS OF PENICILLIN MATERIALS TO UKRAINE

CONTRACTOR	Serial No.	Quantity Ordered	MATERIAL	FAS US Value	SHIPMENT
Sharples Corporation Philadelphia, Pa.	OP-3664	40 ea.	Bolts, Sharples Super Centrifuge (OP-ND-719)	\$120.00	American Victory B/L 9 March 24, 1947
Gamma Instrument Co., Inc.	TS-633	2 sets	P.H. Motors, Lab. Model, Grimm Automat with accessories (UA-3024)	\$892.98	Aakold - B/L 1264 May 13, 1947
Canadian Ingersoll Rand Co., Ltd.		6 ea.	Carbon rings. Replacements for 14 x 11 Ingersoll Rand Glass Es-1-ML Class 2 construction air compressors (UC-517)	\$139.53	Chernigov - B/L 1201 Nov. 25, 1947
Cave & Co. Ltd	1470	1 ea.	Water distillation apparatus, 3 to 5 G.P.H. (UC-507)	\$297.29	Not Yet Shipped Availability UN 5459
Fisher Scientific Co., Ltd.	1476	25 ea.	Sheets, stainless steel 2' x 8' (For Byelo. & Ukraine only)	\$100.00	CANCELLED
Fisher Scientific Co., Ltd.	1476	5 ea.	Cylinder Freon 12	\$110.48	
Fisher Scientific Co., Ltd.	1476	20 doz.	Pipettes, Serological 5 cc ea., 1/10 graduation		
Gave & Co., Ltd.	1470	1 ea.	Flasks, volumetric, 50 cc ea. ground glass (UC-507) top GL. GRAX.	\$14.59	Dimitri Donaloy Dec. 6, 1947
Gave & Co., Ltd.	1470	1 ea.	Pumps, oil, vacuum canco, Hyvac-Vac, 1/4 h.p. motor 220 V, 50 cycle, (UC 507)		Not Yet Shipped Availability UN 6152
Fisher Scientific Co., Ltd.	1476	1 ea.	Pumps, oil vacuum canco magg, Vac, V/motor 220 V, 50 cycle. (UC-507)	\$227.76	
Canadian Lab. Supplies Ltd.	1477	1 ea.	Filters, pressure Seitz Biological 10 liter capacity each with 100 filter discs. (UC-507)	\$123.13	Dimitri Donaloy Dec. 6, 1947 B/L 1207
		1 ea.	Counters, Quebec Colony Cenco. MM scale (UC 507)	\$41.24	Rossia - B/L 1216 Nov. 1, 1947
		4 ea	Platinum, loop	\$6.00	CANCELLED

SHIPMENTS ON PENICILLIN MATERIALS TO UKRAINE

CONTRACTOR	Serial No	Quantity Ordered	MATERIAL	FAS US Value	SHIPMENT
Fisher Scientific Co., Ltd.	1476	300 ft.	Tubing, rubber, heavy, wall, 7/8" exterior UC 507	\$ 40.28	Dimitri Donshoy Dec. 6, 1947 B/L 1207
Canadian Lab. Supplies, Ltd.	1477	6 ea.	Funnels, Separator, 6000 cc. stoppered globe (UC 507)	\$ 84.53	BAKU B/L 1210 Dec. 24/47
Gave and Co. Ltd.	1470	6 ea.	Funnel, Buchner, Porcelain (not jacketed) (UC 507)	\$ 78.71	Not Yet Shipped Availability UN 5469
Fisher Scientific Co. Ltd.	1476	1 ea.	Oven, single wall 220V. 50 C - AC (95X5 A) WI Dekotinaky Regulator (UC-507)	\$ 100.69	Dimitri Donshoy Dec- 6, 1947 B/L 1207
Robert Berry & Co. Ltd.	1507	5,073 gals.	Amyl Acetate (UC 516)	\$14,113.19	3,802 3/4 Gals. Nov. 14, 1947
			(Fire loss replacement UC 537)	\$ 3,874.61	1,044 Gals. Sevsneples B/L 1203 Nov. 14, 1947
				\$ 842.47	227 Gals. Not Yet Shipped Availability UN 6147

SHIPMENTS OF PENICILLIN EQUIPMENT - EMERGENCY SPARE PARTS LIST FOR UKRAINE

CONTRACTOR	Serial No	Quantity Ordered	MATERIAL	FAS US Value	SHIPMENT
Sharples Corporation			Sharples Centrifuge Spare Parts & Supplies for the #162 Centrifuge (DPED 779 Pt. 8)		
		10 gal.	Bearing Oil		\$12.00
		10 lb.	Neovastane Grease	"	\$12.00
		2 dos.	Ring De, gaskets #155	"	\$ 2.40
		24 each	Bowl Boss Sleeves (Monel) #40	"	\$79.20
		24 dos.	Bowl Bottom Gaskets #154	"	\$ 6.00
		6 each	Bowl Protecting Caps # 325	"	\$ 5.40
		36 each	Three wing springs stainless steel #576	"	\$ 9.00
		1 each	Drags, complete, stainless steel	"	\$228.00
		36 dos.	Brushings #43	"	\$ 18.00
		1 each	Drag springs # 48 (stainless steel)	"	\$ 3.00
		4 each	Feed Nozzle - stainless steel, # 354	"	\$26.00
		24 dos.	Feed Nozzle - gaskets #355	"	\$ 1.40
		4 each	Ferrule cap - stainless steel #413	"	\$36.00
		2 each	Ferrule body - stainless steel #414	"	\$66.00
		48 dos.	Bullet catches #561	"	\$ 2.40
		2 each	Brake assembly complete, Type 3, #327	"	\$16.80
		2 each	Bearing complete - # bearing	"	\$90.00

MOSSIA
Nov, Dec 1, 1947
EX 12710

RECEIVED
7/13

SHIPMENTS OF PERICIL IN EQUIPMENT - EMERGENCY SPARE PARTS LIST FOR UKRAINE

CONTRACTOR	Serial No.	Quantity Ordered	MATERIAL	FMS US Value	SHIPMENT
Sharples Centrifuge Spare Parts & Supplies for the ALF Centrifuge (Continued)					
Sharples Corporation		2 each	Bearing sleeves # 67 (DPMD 779 Pt. 6)	\$ 14.40	
		2 each	Sleeve nuts # 68	\$ 1.80	
		4 each	Funnel clutch # 90	\$ 12.00	
		12 each	Flexible cou lining # 75	\$ 3.60	
		2 each	Bearing washers # 239	\$.60	
		12 each	Ball bearings # 245	\$ 28.80	
		12 dos.	Bearing oil filters # 721	\$.30	
		4 each	Male clutch # 71	\$ 7.20	
		12 dos.	Spindles, chrome plated, # 72	\$ 115.20	
		4 each	Spindle - screws # 74	\$ 3.60	
		1 each	Idler Assembly complete	\$ 33.00	
		6 each	Idler Ball bearings # 303	\$ 14.40	
		12 each	Belt, chart # 77	\$ 36.00	
		16 each	Geimicidal Lamps, G-15TS, 18", (DP.0779 Pt.7)	\$ 52.92	Not Yet Delivered

ROSSIA
Nov. 2, 1947
R/L 1210

MISCELLANEOUS 8713

Intal General Electric Corp.
Misc. 8757

SHIPMENTS OF PENICILLIN EQUIPMENT - EMERGENCY SPARE PARTS LIST FOR UKRAINE

CONTRACTOR	Serial No	Quantity Ordered	MATERIAL	FAS US Value	SHIPMENT
Taylor Instrument Company	121NH223	1 each	Taylor Fullscope Recording Temperature controller, Black case, face mounted bottom connected, 24 hour spring wound clock, reverse action; adjustable sensitivity; 12" chart, QP 4833, Range 0 - 120°C, over range protection. D, each tube system 20 ft. mercury actuated capillary; 18/8 stainless steel bulb with rigid extension stem of 18/8 stainless steel 33" long in cluding bulb, 18/8 stainless union connection including 3/4" thread hub nut; for full immersion; 100 charts, ink, etc., with all accessories, complete (DPND 779 Pt 6)	\$496.10	
		1 each	121NH223 Same as item 1, except each tube system 10' and 18/8 stainless steel bulb with rigid extension stem of 18/8 stainless steel, 22 3/4" including bulb, (DPND 779 Pt. 6)	\$478.90	
		1 each	121NH123 Same as item 1, except 1 pen and 1 contr 1 system, 10' mercury actuated tubing; 18/8 stainless steel bulb with rigid extension of 18/8 stainless steel, 22 3/4" long including bulb. (DPND 779 Pt 6)	\$254.95	
		3 each	418323 1/4" reducing valves (DPND 779 Pt 6)	\$ 21.00	
		3 each	RS 9817 Air Filter. (DPND 779 Pt 6)	\$ 19.50	
		3 each	5V0225 Taylor 1 inch Diaphragm valve, standard construction (DPND 779 Pt 6)	\$112.50	
		2 each	5V226 Taylor 2 inch Diaphragm valve, standard construction. (DPND 779 Pt 6)	\$146.00	

NO IN SUPPLY

RAIS E/L 1207
Dec. 24/47

RECEIVED 8740

SHIPMENT OF PENICILLIN EQUIPMENT - EMERGENCY SPARE PARTS LIST FOR UKRAINE

CONTRACTOR	Serial No.	Quantity Ordered	MATERIAL	FAS US Value	SUPPLIER
Paramount Rubber Company		1 each	Batching Tanks, to be of carbon steel 3/16" plate, circular - 46" diameter, 60" high. To be mounted on 38" legs with threaded foot plates for leveling. (DPMD 779 Pt. 5)		
Misc. 881A		2 each	Air Filters (for Fermenters) Carbon steel 16" x 58" overall. Bottom 12" to be conical to 3/4" outlet equipped with globe valve, top to be flanged and removable - vessel to be constructed of 16" standard pipe and tested to 15 p.s.i. - a 16" perforated plate to be installed at base of pipe for wool support and 16" perforated plate supported by flanged top to extend inside of pipe 12". Two 2" nipples to be welded to vessel diametrically opposite about 6" from top. 2" inlet placed just below bottom perforated plate, per blueprint attached. (DPMD 779 Pt. 5)	\$880.00	Mikhail Kutusov Nov. 18, 1947 B/L 1207
Fischer & Porter Company		2 each	Master Enclosed Floccators to have the following specifications: MATERING INSTRUMENT, Figure A 776; Meter Size: 11; Connection size: 3"; Connection type & Rating; Flanged Flat face; Material of fittings: Bronze; Float Guide: Patented "Beed Guide" tube with 3 raised glass ribs to center and to guide the float; Packing: Neoprene; Connections to Face: Inlet-Left, Outlet-right, unless otherwise specified; Panel Mounting Fittings: None; metering tube: B1A25, headed, 250 mm. scale; Type of Scale & units; Direct reading; Float specifications: B6-11-1 of stainless steel. <u>LIQUID SPECIFICATIONS</u> : Fluid: Air; Color & Transparency: Transparent; Specific Gravity: 1.00; Operating Pressure: Atmospheric; Operating Temperature: 70°F. <u>FLOW RANGE</u> : Maximum Flow: 200 CFM; Minimum Flow: 29 CFM. To include outline drawings and pressure correction curves. (DPMD 779 Pt. 4)		
Misc. 874A		3 each	Master Enclosed Floccators to have the following specifications: MATERING INSTRUMENT: Figure A 775; Meter Size: 6; Connection Size: 3/4"; Connection Type & Rating: screwed; Material of Fittings: Brass; Float Guide: Patented "Beed Guide" tube with 3 raised glass ribs to center and to guide the float; Packing: Neoprene; Connections to face:	\$442.00	Sergey Kirov Oct. 23, 1947 B/L 1211

SHIPMENT OF PENICILLIN EQUIPMENT - EMERGENCY SPARE PARTS LIST FOR UKRAINE

CONTRACTOR	Serial No	Quantity Ordered	MATERIAL	FAS US Value	SHIPMENT
Misc. 8741			Inlet-left, Outlet-right, unless otherwise specified, Panel Mounting Fittings; Metering Tubing B&M25, beaded, 250 mm. scale; Type of Scale & units; Direct reading; Float Specifications: BG-62 of stainless steel. <u>LIQUID SPECIFICATIONS</u> : Fluids: Air; Color & Transparency; Transparent; Specific Gravity: 1.00; Operating Pressure: Atmospheric; Operating Temperature: 70°F. <u>FLOW RANGE</u> : Maximum Flow: 20CFM; Minimum flow 1.4 CFM. To include outline drawings and pressure correction curves. (DPMD 779 Pt. 4)	\$196.80	See Preceding Page
Maschinen Regulator Co.		(2 each 2" #16 Back Pressure Regulators, cast iron body, flanged ends, P&O 2504 Ex. N.Y. Standard #804 18/8 Stainless Steel trim. Grease sealed Lubricator, # Grease # 7 case, Adjustable range 6-20 PSI, Controlling air 0-200 CFM. DPMD 779 Pt. 3)			
Misc. 8738		(3 each 1/2" #16 Back Pressure Regulators, Cast Iron body, screwed ends, #804 18/8 Stainless Steel trim, Grease sealed Lubricator, # Grease # 9 Case, Adjustable range 2-7 PSI Valve open above 5 PSI, Controlling air 0-25 CFM. (DPMD 779 Pt. 3)		\$492.00	NAKU B/L 1203 Dec. 24/47
Robert D. Shaw Company		(1 each Standard Assay Cup Dispensers (DPMD 779 Pt 2)		\$ 90.00	Rosada Nov. 1, 1947 B/L 1203
Misc. 8737		(6 each 24" Stainless Steel Magazine Tubes, 7/16" O.D., 0.032" wall thickness. (DPMD 779 Pt. 2)		\$ 12.90	
Erleson Screw Machine Company		2,500 ea. Stainless Steel Penicylinders, .3125 O.D., .242 I.D., .400 length (DPMD 779 Pt. 1)		\$125.00	Chalmers Oct. 3, 1947 B/L 1202
Misc. 8739		750 Lbs. Tergitol (Amulion breaker) in drums suitable for export. (UC-581)		\$395.59	NAKU B/L 1202 Dec. 21/47

SHIPMENT OF PENICILLIN EQUIPMENT - EMERGENCY SPARE PARTS LIST FOR UKRAINE

CONTRACTOR	Serial No	Quantity Ordered	MATERIAL	PAS US Value	SHIPMENT
Fischer Scientific Co. Ltd.		1 each	Sedta Filters, size 100 ml. (UC 579)	\$21.65	Not yet shipped Availability UN 5814 Not yet shipped Availability UN 5898 Not yet shipped Availability UN 5814
		1 each	Constant Temperature water, ^{resins} type for Lab. essay work "Treas", size 160, 220 Volt (UC 579)	\$122.75	
		1 each	Lab Freeze-dry set-ups as per sketch provided Fisher Scientific Co. by Merck. To include manifold connecting flasks and 2 traps/set. (UC-579)	\$171.18	
Fischer Scientific Co. Ltd.		1 each	Barnstead Still, capacity 10 G.F.H., steam heated.(UC-579)	\$332.29	Not Yet Delivered

SUPPLEMENTARY REPORT
 SHIPMENTS OF PIPES AND FITTINGS FOR PENICILLIN EQUIPMENT TO UKRAINE

CONTRACTOR	Quantity Shipped	MATERIAL	FAS US VALUE	SHIPMENT
Crane Limited	7 1/4 feet	1" stainless steel tubing type 304	\$1,202.71)	Michail Kutusov B/L1209
	317' 5"	2" " " " "		
The following items were shipped in 6 boxes, gross weight, 1,201.lbs., value \$1,760.37 on the Vladivostok, HL #1201, February 14, 1948.				
	65	1" #1890 stainless steel unions		
	6	1 x 1/2 #18886 stainless steel hex. bushings		
	4	1 1/4 x 1 " " " "		
	6	1x 1/4 " " " "		
	4	2x 1 1/4 " " " "		
	6	1/2 x 1/4 " " " "		
	2	2" #3840 stainless steel gate valves SCD		
	11	3" #352 S Std seamless steel 90° welding elbows		
	12	4" " " " " " "		
	16	6" " " " " " "		
	22	1/4" 355 1/2 all iron SCD globe valves		
	50	1/2" #55 1/2 all iron SCD globe valves		
	26	1 1/2" " " " " " "		
	13	2" " " " " " "		
	46	3/4" " " " " " "		
	3	1/4" #88 All Iron Std. Gate Valves		

The following items were all shipped in 26 cases, gross weight, 10, 844 lbs., valued \$4,435.13 on the Vladivostok, B/L 1218 February 14, 1948

200	1/2 x 1 1/2" Sq. Hd. carbon steel machine bolts with hexagon nuts
50	1 1/2" #519 blk M.I. RR unions
50	1/4" " " " "
25	1/2" " " " "
60	3/4" " " " "
100	1" " " " "
50	1/2" #119 Galv. M.I. RR Unions
24	1 1/2" Std. blk. C.I. Tees
50	1/2" " " " "
75	1" " " " "
12	1/4" " " " "

SUPPLEMENTARY REPORT
 SHIPMENTS OF PIPES AND FITTINGS FOR PENICILLIN EQUIPMENT TO UKRAINE

CONTRACTOR	Quantity Shipped	MATERIAL	FAS US VALUE	SHIPMENT
	12	1 1/2" Std Galv. C.I. Tees		
	12	2" " " " "		
	30	3/4" " " " " "		
	30	1" " " " " "		
	36	1 1/4" " " " " "		
	6	1 1/4 x 1 1/4 x 3/4" Std. Galv. C.I. Red. Tees		
	190	1 1/2" Std Blk C.I. Kells		
	50	2" " " " " "		
	50	1/2" " " " " "		
	100	3/4" " " " " "		
	190	1" " " " " "		
	50	1 1/4" " " " " "		
	50	1/2" Std Galv C.I. Kells		
	30	3/4" " " " " "		
	24	1" " " " " "		
	36	1 1/4" " " " " "		
	12	1 1/2 x 3/4" Std. Blk C.I. Red Kells		
	1	3 x 1 1/4" " " " " "		
	1	1 1/4 x 1" Blk Shoulder Bushings		
	2	3" #525 Std Blk C.I. Kells F.F. & D.		
	1	6" " " " " "		
	1	6 x 3" #545 Std Blk C.I. Red Kells F.F. & D.		
	1	8 x 6" #545 " " " " "		
	2	3" #529 Std Blk C.I. Tees F. F & D		
	2	6" #529 " " " " "		
	52	3 x 7 1/2" Std #553 Blk C.I. Comp Flanges F & D		
	19	6 x 11" " " " " "		
	1	8 x 13 1/2" " " " " "		
	6	4 x 9" " " " " "		
	46	1" #888 Alliron gate valves SCD		
	5	3 1/4" " " " " "		
	24	1" " " " " "		
	26	1 1/4" " " " " "		
	20	3" #673 all iron gate valve F.F. & D.		
	3	4" " " " " "		
	4	6" " " " " "		
	7	4" #673 all iron gate valves F & F & D air under water tested		

Vladivostok, B/L #1218, February 14, 1948

SUPPLEMENTARY REPORT

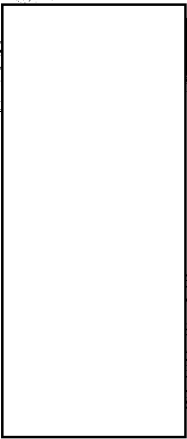
SHIPMENTS OF PIPES AND FITTINGS FOR PENICILLIN EQUIPMENT TO UKRAINE

CONTRACTOR	Quantity Shipped	MATERIAL	FAS US VALUE	shipment
	11	8" # 473 all iron gate valves F & F & D air under water tested	} Vladivostok, B/L # 1218, February 14, 1947	
	40	3 1/2" C.D. style "F" handwheels		
	4	2 x 2 x 2" #888 Stainless TEES SCD		
	86	1" #8868 " " "		
	65	1" #8860 Stainless Steel 90 degree SCD elbows		
	100	1" #8840 Stainless Steel Gate valves BCD		
	20	1" #8803 stainless steel globe valves		
	40	1" #8889 stainless steel SCD comp. flanges F&D		

SUPPLY SHIPMENT REPORT
 SHIPMENTS OF PIPES AND FITTINGS FOR PENICILLIN EQUIPMENT TO UKRAINE

CONTRACTOR	ITEM #	QUANTITY SHIPPED	MATERIAL
Ideal Supply Company	The following piping was shipped on the KAMENSKYI PODOLSK B/L 1202 January 8, 1948. Total Value \$428.21		
	1	210 ft.	1/4" Black Pipe, Threaded and Coupled
	2	315 ft.	1/2" " " " " " "
	3	252 ft.	3/4" " " " " " "
	4	168 ft.	3/4" Galvan " " " " " "
	6	420 ft.	1 " " " " " " " "
	8	105 ft.	1 1/4" Black " " " " " "
	9	126 ft.	1-1/4" Galvan " " " " " "
	13	65 ft.	4 " Black " Plain Ends
	15	93 ft.	8 " x 25 lbs. Black Pipe, Plain Ends
	16	20 ft.	12 " x 30 lbs. " " " "
	The following piping was shipped on the VLADIVOSTOK B/L # 1215 February 14, 1948. Total Value \$2,623.61		
	3	147 ft.	3/4" Black Pipe, Threaded and Coupled
	5	210 ft.	1 " " " " " " " "
	6	210 ft.	1 Galvan. " " " " " "
	7	749 ft. 7 in.	Stainless Steel No. 304 Pipe, seamless 1" pipe
	11	311 ft.	" " " " " " " "
	12	105 ft.	7" Black Pipe, Plain Ends
	13	61 ft.	4 " " " " " " " "
	14	63 ft.	6 " " " " " " " "
	The following piping was shipped on the VLADIVOSTOK B/L # 1218. February 14, 1948. Total Value \$322.46		
	3	147 ft.	3/4" Black Pipe, Threaded and Coupled
	5	210 ft.	1 " " " " " " " "
	6	210 ft.	1 Galvan. " " " " " "
	12	86 ft. 7"	4 " Black " Plain Ends
	14	91 ft. 4"	6 " " " " " " " "
	The following piping is in New York to be loaded on the first available vessel. Total value \$232.46		
	5	210 ft.	1 " Black Pipe, Threaded and Coupled
	6	210 ft.	1 Galvan. Pipe, Threaded and Couplet
	10	105 ft.	2 " " " " " " " "
	13	113 ft. 5"	4 " Black Pipe, Plain Ends

25X1



DO NOT DETACH

Enclosures to

A- OSI - M

B- Lit.

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