Declassified E.O. 12356 Section 3.3/NND No. 785019

ACC 203/PWU

10000/150/575
(VOL. 1)

ELECTRIC
JULY - OCT
(DEC. 1944

Declassified E.O. 12356 Section 3.3/NND No. 785019

0000/150/575
VOL. 1)

ELECTRIC POWER EQUIPMENT
JULY - OCT. 1944;
(DEC. 1944 - MAR. 1945)

Declassified E.O. 12356 Section 3.3/NND No. 785019

WESTINGHOUSE
ELECTRIC INTERNATIONAL COMPANY

Maj. Gove
Col Schaff
Maj. Whitfield

rec'd 10 Oct 44
5314

40 WALL STREET
NEW YORK 5, N.Y., U.S.A.

October 12, 1944

Summary of Discussion Held October 2, 1944

Place:

Westinghouse Electric International Company, 40 Wall Street, New York, N.Y.

Present:

United States Army (Allied Control Commission)
Lieutenant Colonel L. A. Jenny

United Kingdom (Allied Control Commission)
Lieutenant Colonel W. M. Lapper

War Production Board
Mr. J. H. Pilkington
Mr. F. Nitzberg

Burns and Roe
Mr. L. D. Cushman

Westinghouse Electric International Co.
Mr. A. S. Johansson
Mr. C. A. Russell
Mr. J. H. Olson

Capt Preedy attached to Elec. Power Br. 6/11

The purpose of the conference was for the Westinghouse Electric International Company, War Production Board, and the Allied Control Commission to review the unit power plants 441 storage for the Chinese.

The following plants were proposed for use in Italy.

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SUMMARY
OF
PLANTS UNDER CONSIDERATION

Electrical Characteristics - 50 cycle, 60% P.F., 3 phase, voltage (see b

Steam Characteristics - 150 # gauge and 750° F.T.T. at superheater outl
400 # gauge and 725° F.T.T. at turbine throttle

Purchaser	Purchaser Order No.	Westinghouse Order No.	No. of Boiler Units	Boilers Mfr.	No. of Turbines	Generator Voltage	Si
Universal Textiles Corp.	UA S-T-1698	SE-61000	4	Foster Wheeler	3	3000	3
"	UE-LL-8018	FE-61001	5	Combus-tion Eng.	2	6600	1
"	UA2-TE048	FE-70000	4	Babcock & Wilcox	4	6600	3
U.S. Treas. Dept. Procurement Div.	TS-IPL-5083	FE-61004	4	Foster Wheeler	3	6900	2

* This plant, as supplied, has 4 - 2000 kw turbines, but only thr
considered for requalifioning.

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SUMMARY
OF

PLANTS UNDER CONSIDERATION

Electrical Characteristics - 50 cycle, 90% P.F., 3 phase, voltage (see below)

Steam Characteristics - 450 # gauge and 750° F.T.T. at superheater outlet
400 # gauge and 725° F.T.T. at turbine throttle

Customer	Purchaser Order No.	Westinghouse Order No.	No. of Boilers	Boiler Mfgr.	No. of Turbines	Generator Voltage	Size of Turbines	Total Capacity of Plant
U.S. Naval Radiological Lab.	NObs-T-1832	FE-64000	4	Foster Wheeler	3	3000	1000 kw	3000 kw
[illegible]	NObs-11-5018	FE-64001	3	Combustion Eng.	2	6000	1000 kw	2000 kw
[illegible]	[illegible]-T-5018	FE-70000	4	Babcock & Wilcox	4	6000	1000 kw	4000 kw
U.S. Treas. Dept. Bureau of Engraving	TA-TPS-5063	FE-84004	4	Foster Wheeler	3	6900	2000 kw	3000 kw

*This plant, as supplied, has 4 - 2000 kw turbines, but only three are to be considered for requisitioning.

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General

It was explained that these plants are designed as units; i.e., one turbine and one boiler, but in many cases an extra boiler with its auxiliaries was supplied as a spare. In all cases where multiple units are in one plant, proper provisions and materials have been supplied for crossover connections between the units.

As these plants were designed for transportation over the Burma Road, no box exceeds 10,000 lbs. and insofar as practical, weights of boxes were kept between 250 and 500 pounds. Equipment was disassembled to greatest degree possible.

Practically all material supplied is in storage in this country with the exception noted under each order.

In most cases these plants were designed for installation in caves. On PE-64001 a building design has been made, but no material furnished.

All plants are complete with boilers, turbines, piping, pumps, insulation, cable, supporting steel, etc. necessary for the operation except as generally noted below.

Basically the plants all have the same equipment, although in some cases raw water filters were not supplied. In most all cases no circulating water pumps, piping and cooling towers were supplied, neither were ash and coal handling equipments.

All plants are designed for coal firing and are equipped with stokers.

No first or second quality fire brick or fire clay has been supplied on any of the plants.

The number of feeders on the switchgear varied in each plant. This detail is noted under each order.

In most cases station lighting equipment was supplied including wire, fixtures, and light bulbs.

Reaction tools have been supplied only on one of the orders; i.e., PE-64004.

Basic Conclusions

The following were the general conclusions:

All plants would be taken with the coal stokers, but

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proper oil burning equipment for Bunker "C" oil is to be added. Depending on the classification of the selection of the oil firing equipment, the stokers may or may not be used in combination with the oil firing equipment.

All plants are to be supplied with circulating water pumps, piping and cooling towers. Should it be found, due to delivery, to be impossible supply of survey needs, the design of this equipment is to be kept on a unit basis, and separate system for each condenser.

First quality fire brick and fire clay are to be added.

Power transformers are to be supplied to step up voltage to 2300-volt network.

All turbines are to be shipped assembled on their bed-plates.

All condensers are to be tubed.

Boilers are to be pre-assembled within the shipping limitations (see below).

In general, all sub-assembly work is to be done in this country when the same is practical and reasonable.

Piping and other miscellaneous odds and ends are to be consolidated for shipment into as few packages as possible.

Westinghouse should include the tools supplied for 1000 kw plants on Lo-Ho-6003, which plants are not being considered. One set should go with each plant. As this will leave one plant without erection tools, it was agreed that one of the other sets or combination of sets would be used by transferring them at the sites.

Switchgear could be taken as now supplied regardless of whether or not all panels could be used.

When considering the shipment of the material required or scheduling delivery of any material, or replacing material already shipped to China, the sequence in the erection program is to be taken into account.

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Door trusses and purlins, including supporting steel columns for each plant are to be supplied. No windows, roofing, siding, etc., are to be furnished.

If reinforcing steel has been supplied, it should be

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shipped. If not, it will be supplied locally in Italy.

Drawings and Manuals

Westinghouse is to furnish immediately drawings necessary for selection of site.

When order is placed, Westinghouse is to send foundation drawings necessary to prepare site for receipt of material.

Westinghouse is to then send drawings as needed in the orderly progress of erection, and when final shipment is made, complete sets are to be sent.

All drawings except complete sets are to be sent as Van Dyken by air mail to Italy.

Instructions are to be furnished for installation and operation of equipment. The instructions will probably be the manual for plants already shipped overseas to Russia except adapted to these particular jobs.

Weight and Size Limitations

All equipment will be moved in Italy on 4 ton truck trailers so maximum weight of each piece is not to exceed 40 tons.

Size of boxes will depend on U.S. Railroads, although in the case of the boiler sub-assemblies, if this can be done at the U.S. Seaboard, the sub-assemblies could be lightered to the boats, in which case the size must be such that it can be transferred on a single lane road in Italy.

Erection Supervisor

In view of the general complexity of these plants, Westinghouse strongly recommends that they be allowed to send over to Italy an overall plant erector and supervisor, who can generally oversee the erection of each plant and the placing in operation of each one.

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Procedure to be followed.

Westinghouse shall prepare specifications for each plant incorporating all equipment available and all new equipment required.

Upon completion of specifications, Westinghouse shall prepare information showing exactly what items are available and where, and also list new equipment to be purchased. The latter

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should include designation of supplier and delivery needed, as well as delivery promised.

The U. S. Army or some government agency shall arrange to have Universal Trading Corporation and the U. S. Treasury Department, Procurement Division to release this equipment, and Westinghouse shall purchase the same back for its present owner.

Westinghouse shall act as the general contractor, purchase and supply all equipment to the U. S. Army in accordance with the specifications prepared persuant to paragraph 1 under "Procedure to be followed."

A general discusaion followed on each of the plants.

FE-64000 - 4 Boilers - 3 - 1000 kw turbines

No. of outgoing feeders (4)

1 - 3000 kw
2 - 1000 kw
1 - 500 kw

Also two incoming 1000 kw feeders are included in this plant.

(a) New Material Required

(1) - Step-up power transformers 3000/9000 volt
one (1) 3000 kva transformer and
one (1) 500 kva "
Also with the transformers are to be supplied lightning arresters and fused disconnecting switches on the high side.

(2) Fuel oil burning equipment including oil tanks.

(3) 1st quality fire brick and fire clay.

(4) Circulating water pumps, piping and cooling towers or spray pond.

(5) Columns, wind bracing, roof trusses and purlins.

(6) New water filtering units.

(b) New Materials Required to Replace that Shipped to China.

(1) 4 Induced draft fans and stacks

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Key Materials Required to Replace that Shipped to China Contd.

(2) 4 Induced draft fan drivers (turbine)
(3) 4 Boiler feed pump drivers(turbine)
(4) 5 Deaerating heaters and storage tanks
(5) 3 Deaerating preheaters.
(6) 3 Evaporators and evaporator condensers.
(7) 12 Single phase, 50 kva station service transformers.
(8) 4 Fisher governors.

FE-64001 - 3 Boilers - 2 - 1000 kw Turbines

Number of outgoing feeders (3)

1 - 1000 kw.
2 - 2000 kw.

(a) New Material Required

(1) Step-up transformers 6600/9000 volt
One (1) 2000 kva transformers
One (1) 1000 kva Transformers

With the transformers are to be supplied lightning arresters and fused disconnecting switches on the high side.

(2) Fuel oil equipment including oil tanks.

(3) 1st quality fire brick and fire clay.

(4) Circulating water pumps, piping, and cooling towers or spray pond.

(5) Columns, wind bracing, roof trusses and purlins.

(b) New Material Required to Replace that Shipped to China

(1) 2 Evaporators and condensers.
(2) 3 Induced draft fan drives (Turbine)
(3) 1 Deaerating preheater
(4) 3 Boiler feed pump turbine drives.
(5) 4 Gould hand-operated air pumps.
(6) 3 Fisher governors.
(7) Extra duct work to replace dust collector.

FE-70000 - 4 Boilers - 4 - 1000 kw Turbines

No outgoing feeders.

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(a) Raw Material Required

(1) 3 - 2500 kw feeder panels.
(2) 2 - 2500 kva transformers 6600/9000 volts.

With the transformers are to be supplied lightning arresters and fused disconnecting switches on the high side.

(3) Fuel oil equipment including oil tanks.

(4) 1st quality fire brick and fire clay.

(5) Circulating water pumps, piping and cooling towers or spray pond.

(6) Columns, wind bracing, roof trusses and purlins.

(b) Material Required to Replace that Shipped to China.

(1) 4 Fisher pressure reducing valves.
(2) 5 Gould hand-operated air pumps.

FH-84001 - 4 Boilers - 3 - 9000 kw Turbines

Number of outgoing feeders (5)

2 - 3750 kw
2 - 2500 kw
1 - 1200 kw

(a) Raw Material Required

(1) 2 - 3750 kva transformers 6600/9000 volts with the transformers are to be supplied, lightning arresters and fused disconnecting switches.

(2) Fuel oil burning equipment, including oil storage tanks.

(3) 1st quality fire brick and fire clay.

(4) Circulating water pumps, piping and cooling towers or spray pond.

(5) Columns, wind bracing, roof trusses and purlins.

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All drawings, correspondence, and specifications to be sent to Italy will be addressed to:

Public Works and Utilities Sub-Commission
Allied Control Commission
A.F.O. 394
c/o Postmaster, New York, N.Y.

Attention: Lt. Col. W. M. Lapner

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1st Col Jenny

U. S. CONFIDENTIAL
BRITISH CONFIDENTIAL

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COMBINED CIVIL AFFAIRS COMMITTEE

The following was received 2 October 1944.

ALLIED FORCE HEADQUARTERS
G-5 Section

Ref: E-1

25 September 1944

Subject: ACC Requisition ACC-ENG-27-45 for Electrical Generating Equipment (MGS 216 ENG).

To: The Directorate of Civil Affairs
War Office, Whitehall, London, S.W.1.

1. AGWAR Signal WX 30499 of 14 September requested that this headquarters dispatch to Washington Lt. Col. L. A. Jenny and Lt. Col. W. M. Lapper of the Allied Control Commission for the purpose of their personally representing the circumstances justifying the provision of electrical generating equipment for civil use in Italy. This headquarters has approved their temporary duty in Washington for this purpose and has given them terms of reference for the mission, copy attached.

2. They have been authorized to deliver personally Requisition ACC-ENG-27-45, which has been approved by this headquarters under the conditions stated in this letter giving the terms of reference of the mission, and assigned AFHQ Requisition Number MGS 216 ENG. A copy of the requisition is also attached, with a copy of the study referred to therein, "Report on the Availability of Electrical Energy in Central Italy Progressively for the Six Months ending Feb. 28th, 1944."

For the Assistant Chief of Staff, G-5:

R. V. GRADY,
Captain, T.C.,
Economics and Supply.

Capt Grady. File with Elec. Power Req. 4102

Incls: - 3
1 - Ltr. AFHQ, G-5. 24/9/44
(Terms of Reference for Mission of Lt. Cols. Jenny and Lapper)
2.- Reqn. ACC-ENG-27-45 (MGS-216-ENG)
3 - Report on the Availability of Electrical Energy in Central Italy.

Information copies to:
W/Incls. 1 & 2
SOS NATOUSA FOR SSGDS
N.Y.PE.
G-4, AFHQ
M & TN, AFHQ
ENGR, AFHQ

W/Incl. 1
Hq ACC Attn Req. Div.
W/O Incls.
Combined Civil Affairs Committee
3B-936 Pentagon Washington D C

10-2-13

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE ACT, U.S.C. 50; 31 and 32. THE TRANSMISSION OR THE REVELATION OF ITS CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

REQUISITION NUMBER
ACC- ENG-27-45

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HEADQUARTERS
ALLIED CONTROL COMMISSION
Public Works and Utilities Sub-Commission
APO 394

CENTRAL ITALY

Report on the availability of electrical energy in Central Italy progressively for the six months ending Feb.28th 1945.

Also estimated requirements of electrical energy for Military, essential Civilian and factory rehabilitation in Central Italy for the same period.

Prepared by the Electrical Division
Public Works and Utilities Sub-Commission
ALLIED CONTROL COMMISSION

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Italy progressively for the six months ending Feb.28th 1945.

Also estimated requirements of electrical energy for Military, essential Civilian and factory rehabilitation in Central Italy for the same period.

Prepared by the Electrical Division
Public Works and Utilities Sub-Commission
ALLIED CONTROL COMMISSION

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L.A. JENNY,
Lt.Colonel, C.E.,
Director.
26th August 1944

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Report on Rehabilitation of Electricity Supplies in Central Italy

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8.	Detailed information regarding the factories which it is proposed to supply with electricity	— page 14/20

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3.	Output capacity and date of operation of plants under repair	Table C	page 4
4.	Output capacity and particulars of plants being transferred to new locations	Table D	page 5
5.	Output capacity of combined effort in rehabilitation for each Month Sept. 1944 to Feb. 1945	Table E	page 6
6.	Allocation of present available Electricity supplies	Table F	page 9
7.	Future anticipated demands for Military and essential civilian needs	Table G	page 12
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TABLE " A "

Summary of Electrical plant and requirements

(1) Showing the demand for electrical energy in Central Italy which will be required for the Months of Sept. to Feb. inclusive for Military and essential civilian needs.

(2) Showing the effective output capacity of the available generating plant in Central Italy for the Months of Sept. 1944 to Feb. 1945 inclusive. This capacity is made up as follows:-

(a) Capacity of plant at present in operation

(b) Additional Capacity from repaired plant

(c) Additional Capacity from Transfer of plant

(d) Additional winter output due to rainfall

(3) The final Line "deficit" indicates the amount of shortage in Kilowatts of output capacity if the factories Listed on Table "G" are put into operation.

TABLE " A "

	1944				1945	
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
	KW	KW	KW	KW	KW	KW
(1) Estimated Demand	136,950	147,900	166,800	184,750	186,250	186,750
(2) Generating Plant Effective	58,000	76,000	88,000	114,000	155,000	154,000

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generating plant in Central Italy for the Months of Sept. 1944 to Feb. 1945 inclusive. This capacity is made up as follows:-

(a) Capacity of plant at present in operation

(b) Additional Capacity from repaired plant

(c) Additional Capacity from Transfer of plant

(d) Additional winter output due to rainfall

(3) The final Line "deficit" indicates the amount of shortage in Kilowatts of output capacity if the factories Listed on Table "G" are put into operation.

TABLE " A "

	1944				1945	
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
	KW	KW	KW	KW	KW	KW
(1) Estimated Demand	136,950	147,900	166,800	184,750	186,250	186,750
(2) Generating Plant Effective Output Capacity	58,000	76,000	88,000	114,000	155,000	154,000
(3) Deficit	78,950	71,900	78,800	70,750	31,250	32,750

NOTE. Under the output capacity weight has been given to increased availability of water due to rainfall which will fall away beginning in March (see Table "E", page 6)

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HEADQUARTERS
ALLIED CONTROL COMMISSION
Public Works and Utilities Sub-Commission
APO 394

Report on the availability of Electric energy in Central Italy and reduction in generating capacity due to the destruction of plants by the enemy.

(1) The retreating enemy systematically destroyed by mining the Hydro Electric Generating Units, switchgear transformers and auxiliary equipment. This effectively destroyed many of the plants and as care was taken to destroy similar parts in each plant the rehabilitation work is necessarily slowed down. Considerable damage was also done to Transmission Lines and Sub Stations, much copper conductor was taken away and about 60% of the high voltage towers were brought down by mining.

(2) Many castings, forgings and machined parts will have to be made to carry out the repairs. These are in hand and good progress is being made but lack of electric energy for the steelworks and the many Machine Shops which it is desired to operate is causing the repair programme to be delayed.

(3) Out of the sixty important hydro Electric Stations damaged by the enemy it is only possible to effect repairs to sixteen within the next six months. Of the other forty-four generating Stations thirty are totally destroyed and beyond repair and fourteen can be repaired during the next twelve months.

(4) At the present time there is available only 57,030 KW of output capacity, and this includes about 30,000 KW of steam plant in Rome which was undamaged by the enemy. The summer season output capacity in Central Italy, prior to the damage, was 862,000 KW so that with the present capacity standing at 57,030 KW there is 93% of the plant out of use due to enemy action at the present time.

(5) Briefly, therefore, the present position is as follows.

(a)	Original Summer Output Capacity	862,000	KW
(b)	Present Output Capacity	57,030	KW
(c)	Loss due to enemy action	804,970	KW
(d)	Percentage loss		

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Lines and Sub Stations, much copper conductor was taken away and about 60% of the high voltage towers were brought down by mining.

(2) Many castings, forgings and machined parts will have to be made to carry out the repairs. These are in hand and good progress is being made but lack of electric energy for the steelworks and the many Machine Shops which it is desired to operate is causing the repair programme to be delayed.

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(5) Briefly, therefore, the present position is as follows.

(a)	Original Summer Output Capacity	862,000	KW
(b)	Present Output Capacity	57,030	KW
(c)	Loss due to enemy action	804,970	KW
(d)	Percentage loss	93	%

(6) With regard to the rehabilitation programme everything possible is being done to obtain additional output capacity by repairs to damaged plant and by transfer of plants, and the following Tables will show the details of the present generating capacity and the additions which may be expected during the next six months.

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TABLE " B "

7. Showing the output capacity of the Generating Stations operating in connection with the Grid System in Central Italy at 26th August 1944.

Name of Station (1)	Location of Station (2)	Output Capacity at 26th Aug. 44 KW (3)
Terni (Steel)	Terni	550
Terni (old)	Terni	200
Farindola	Pescara	450
Bolognola	Macerata	700
Carassai	Ascoli P.	450
Pedaso	Ascoli P.	1,100
Altolina	Perugia	600
9 Small Stat. Steam (Viscosa)	Unes	730
Steam & Diesel	Rieti	650
Vulci	Rome	30,000
Traponzo	Rome	1,100
S.Savino	Viterbo	550
Fioritella	do	750
Nera Montoro	do	750
Vesta	Terni	7,850
Arci	Rome	2,000
Subiaco	do	1,300
Scalelle	do	2,500
Comunacqua	Frosinone	2,100
Cardinale	do	2,500
Forche	Viterbo	40
	do	160

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of Station (1)	of Station (2)	at 26th Aug. '41 KW (3)
Terni (Steel)	Terni	550
Terni (old)	Terni	200
Farindola	Pescara	450
Bolognola	Macerata	700
Carassai	Ascoli P.	450
Pedaso	Ascoli P.	1,100
Altolina	Perugia	600
9 Small Stat. Steam (Viscosa)	Unes	730
Steam & Diesel	Rieti	650
Vulci	Rome	30,000
Traponzo	Rome	1,100
S.Savino	Viterbo	550
Fioritella	do	750
Nera Montoro	do	750
Vesta	Terni	7,850
Arci	Rome	2,000
Subiaco	do	1,300
Scalelle	do	2,500
Comunacqua	Frosinone	2,100
Cardinale	do	2,500
Forche	Viterbo	40
	do	160
TOTAL Output Capacity		57,030

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TABLE " C "

8. Showing the output capacity of the Generating Plant connected to the Grid System which is now under repair and the anticipated date of completion.

Name of Station (1)	Location of Station (2)	Output Capacity KW (3)	Anticipated date of Completion (4)
Cervara	Terni	1,600	Aug. 31
Larderello	Pisa	3,000	Aug. 31
Tarquinia Paper Mill	Rome	200	Aug. 31
Terni Plate Mill	Terni	2,000	Aug. 31
Larderello	Pisa	3,000	Sep. 30
Cervara	Terni	1,600	do
Jutificio Terni	Terni	1,100	do
Ceprano	Frosinone	9,000	Oct. 31
Cervara	Terni	1,600	do
Farfa II	Rome	4,200	Nov. 15
Cervara	Terni	1,600	Nov. 30
Ponte Fiume	Frosinone	3,200	Nov. 30
Canterno	Rome	10,000	Dec. 15
Cervara	Terni	1,600	Dec. 31
Galleto	Terni	35,000	Jan. 10
Castel Madama	Rome	4,000	Jan. 31
Mandela	Rome	4,000	do
Cervara	Terni	1,600	Jan. 31
TOTAL Output Capacity		88,300	

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Cervara	Terni	1,600	Aug. 31
Larderello	Pisa	3,000	Aug. 31
Tarquinia Paper Mill	Rome	200	Aug. 31
Terni Plate Mill	Terni	2,000	Aug. 31
Larderello	Pisa	3,000	Sep. 30
Cervara	Terni	1,600	do
Jutificio Terni	Terni	1,100	do
Ceprano	Frosinone	9,000	Oct. 31
Cervara	Terni	1,600	do
Farfa II	Rome	4,200	Nov. 15
Cervara	Terni	1,600	Nov. 30
Ponte Fiume	Frosinone	3,200	Nov. 30
Canterno	Rome	10,000	Dec. 15
Cervara	Terni	1,600	Dec. 31
Galleto	Terni	35,000	Jan. 10
Castel Madama	Rome	4,000	Jan. 31
Mandela	Rome	4,000	do
Cervara	Terni	1,600	Jan. 31
TOTAL Output Capacity		88,300	

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TABLE " D "

9. Showing the output capacity of the generating plant which is being moved to assist in the rehabilitation programme.

Name of Station receiving plant (1)	Location of Station (2)	Output Capacity KW (3)	Anticipated date of Completion (4)
Acquoria Vescovali set from Ceprano	Rome	3,500	Dec. 15
Pettorano 2 sets from Carassai	L'Aquila	320	Jan. 10
Molina set from Guglionesi	L'Aquila	250	Jan. 10
Castellano set from Pedaso	Ascoli P.	2,250	Jan. 15
TOTAL Output Capacity		6,320	

In addition to the above programme of plant movement the following arrangements have been made. 4395

CALORE
A 8,000 KW set now being dismantled and repaired will be packed ready for shipment to destination unknown.

MATESE II
The 3,000 KW set brought over from Sicily by A.C.C. being packed ready

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set from Ceprano	Rome		
Pettorano 2 sets from Carassai	L'Aquila	320	Jan. 10
Molina set from Guglionesi	L'Aquila	250	Jan. 10
Castellano set from Pedaso	Ascoli P.	2,250	Jan. 15
TOTAL Output Capacity		6,320	

In addition to the above programme of plant movement the following arrangements have been made. 4395

CALORE

A 8,000 KW set now being dismantled and repaired will be packed ready for shipment to destination unknown.

MATESE II

The 3,000 KW set brought over from Sicily by A.C.C. will not now be installed. This is being packed ready for shipment to destination unknown.

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TABLE " E "

10. Showing the output Capacity at present, from repaired plants, by transfer of plants and the additional output to be expected during the winter months due to rainfall.

	Sept. KW	Oct. KW	Nov. KW	Dec. KW	Jan. KW	Feb. KW
Present output capacity	57,030	57,030	57,030	57,030	57,030	57,030
Output capacity from repaired plants	6,800	18,500	23,100	41,500	78,700	88,300
Output capacity from transfer of plants	--	--	--	3,500	6,320	6,320
Output capacity from increase in water	--	9,000	18,000	25,000	30,000	20,000
TOTAL	63,830	84,530	98,130	127,030	172,050	171,650
Est minimum Outage for breakdown and Repairs 10%	6,383	8,453	9,813	12,703	17,205	17,165

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Present output capacity	57,030	57,030	57,030	57,030	57,030	57,030
Output capacity from repaired plants	6,800	18,500	23,100	41,500	78,700	88,300
Output capacity from transfer of plants	--	--	--	3,500	6,320	6,320
Output capacity from increase in water	--	9,000	18,000	25,000	30,000	20,000
TOTAL	63,830	84,530	98,130	127,030	172,050	171,650
Est minimum Outage for breakdown and Repairs 10%	6,383	8,453	9,813	12,703	17,205	17,165
Effective output capacity	57,447	76,077	88,317	114,327	154,845	154,485
SAY	58,000	76,000	88,000	114,000	155,000	154,000

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11. Electricity requirements in Central Italy for Military and essential Civilian Needs.

The total electricity available in Central Italy at the present time is 57,030 KW and this is divided between the various districts as follows.

Rome	Thermal	30,000	KW
	Hydro	8,200	KW
Terni		10,500	KW
Ancona		5,330	KW
Civitavecchia		3,000	KW
		57,030	KW

Dealing with each of these supplies separately and analysing the users of the electricity it is found that:

Rome: The situation in Rome is that the military needs are practically all being met, but that the essential civilian supply is still below requirements.
About 80% of the available energy is used for military and essential civilian services.
Many of the high Buildings depend on electrically driven pumps to lift water to the top flats. These and many small factories, essential to the life of the city, are still without Electricity. It is estimated that a minimum of 10,000 KW of additional energy is required to meet this need. 439
In addition to this the civilian requirements for lighting of homes and for domestic use are only supplied to the extent of 20% of actual needs and if this is to be ameliorated it is estimated that a further 20,000 KW of energy is required.

Summary for Rome

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Civitavecchia	3,000	KW
	57,030	KW

Dealing with each of these supplies separately and analysing the users of the electricity it is found that:

Rome: The situation in Rome is that the military needs are practically all being met, but that the essential civilian supply is still below requirements.
About 80% of the available energy is used for military and essential civilian services.
Many of the high Buildings depend on electrically driven pumps to lift water to the top flats. These and many small factories, essential to the life of the city, are still without Electricity. It is estimated that a minimum of 10,000 KW of additional energy is required to meet this need. 439
In addition to this the civilian requirements for lighting of homes and for domestic use are only supplied to the extent of 20% of actual needs and if this is to be ameliorated it is estimated that a further 20,000 KW of energy is required.

Summary for Rome

(a) Military use	30%	of	Total	11,460 KW
(b) Essential Civilian	40%	"	"	15,280 KW
(c) Tramways classed as Military and essential Civilian	10%	"	"	3,820 KW
(d) Civilian use	20%	"	"	7,640 KW
	100%			38,200 KW

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Estimated additional Requirements for ROME

(a) Military use	Nil
(b) Essential Civilian	10,000 KW
(c) Tramways	3,000 KW
(d) Civilian use	20,000 KW
Total Estimated additional requirements for Rome	33,000 KW

(If this supply were made available the total Electricity Demand for Rome would be 71,200 KW or approx 70% of the normal requirements at this season. This would fulfil the essential requirements. However, electricity would still have to be strictly rationed)

Terni: Investigation shows 95% of the available energy allocated to this area is taken by the military and essential civilian services. The Military use is for Steelworks, Factories, Hospitals and Billets directly under their control and the essential Civilian needs consist mainly of Water, Sewage, Hospitals, Flour Mills, Bakeries small essential workshops, and limited service of Electric Trams for taking workers to and from factories.

Summary for Terni

(a) Military use	75%	of Total	7,875 KW
(b) Essential Civilian	15%	" "	1,575 KW
(c) Tramways classed as Military and essential Civilian	5%	" "	525 KW
	5%	" "	525 KW
(d) Civilian use	100%		10,500 KW

Ancona and Civitavecchia:

The Military and essential civilian use of Electricity at these places is similar to Terni and less than 5% is available for civilian use.

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or approx 70% of the normal requirements at this season. This would fulfil the essential requirements. However, electricity would still have to be strictly rationed)

Terni: Investigation shows 95% of the available energy allocated to this area is taken by the military and essential civilian services. The Military use is for Steelworks, Factories, Hospitals and Billets directly under their control and the essential Civilian needs consist mainly of Water, Sewage, Hospitals, Flour Mills, Bakeries small essential workshops, and limited service of Electric Trams for taking workers to and from factories.

Summary for Terni

(a) Military use	75%	of	Total	7,875 KW
(b) Essential Civilian	15%	"	"	1,575 KW
(c) Tramways classed as Military and essential Civilian	5%	"	"	525 KW
(d) Civilian use	5%	"	"	525 KW
	100%			10,500 KW

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Ancona and Civitavecchia:

The Military and essential civilian use of Electricity at these places is similar to Terni and less than 5% is available for civilian use.

12. The following summary shows at a glance the division of the available electricity which is allocated by the Allied Force Local (Italian) Board, Electrical Committee, to the various districts.

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TABLE " F "

13. Showing the division of the available electricity in Central Italy. The allocation of this energy for the Military and essential civilian services is decided by the Local Resources Italian Board, Electrical Committee, which is composed of representatives of all the military agencies concerned. Strict rationing of the civilian supply is done by A.C.C. in order that Military demands may be met.

District to which the allotment is made	Military use KW	Essential Civilian KW	Civilian KW	Total for District KW
ROME	13,370 (35%)	17,190 (45%)	7,640 (20%)	38,200 (100%)
TERNI	8,090 (77%)	1,890 (18%)	520 (5%)	10,500 (100%)
ANCONA	4,270 (80%)	850 (16%)	210 (4%)	5,330 (100%)
CIVITAVECCHIA	2,400 (80%)	480 (16%)	120 (4%)	3,000 (100%)
TOTAL	28,130	20,410	8,490	

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Strict rationing of the civilian supply is done by A.C.C. in order that Military demands may be met.

District to which the allotment is made	Military use KW	Essential Civilian KW	Civilian KW	Total for District KW
ROME	13,370 (35%)	17,190 (45%)	7,640 (20%)	38,200 (100%)
TERNI	8,090 (77%)	1,890 (18%)	520 (5%)	10,500 (100%)
ANCONA	4,270 (80%)	850 (16%)	210 (4%)	5,330 (100%)
CIVITAVECCHIA	2,400 (80%)	480 (16%)	120 (4%)	3,000 (100%) 4300
TOTAL	28,130 (50%)	20,410 (35%)	8,490 (15%)	57,030 (100%)

Tramway Demand has been divided between Military and essential civilian.

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14. Anticipated additional Military Requirements.

The military have already asked for an additional 4,000 KW of demand as soon as this can be made available. Furthermore, they will require further supplies for additional factories and workshops which will be operated under their direction. It is estimated therefore that the military will require an additional 15,000 KW in Central Italy.

15. Anticipated Factory Requirements.

This deals only with the rehabilitation of those specific factories which will assist the war effort and which will in most instances reduce the amount of shipping to this theater of operation.

	Tonnage Produced per Month	Import Tonnage Saved per Month	Kilowatts Required
a) Terni-Nera Montoro Ammonia Works Ammonia is urgently needed for 1) Refrigeration 2) 30 tons per month for Solvay Soda Works at Rosignano 3) Fertilizers	180	560	8,000
b) Aniene Caustic Soda and Chlorine Works At each plant: 1) Rome 2) Rosignano 400 tons caustic soda plus 350 tons chlorine	1,500	1,300	6,500
c) Solvay Soda Works - Rosignano Area 1) San Vincenzo 100 Tons/day Caustic Soda	6,000	4,200	500

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of operation.

	Tonnage Produced per Month	Import Tonnage Saved per Month	Kilowatts Required
a) Terni-Nera Montoro Ammonia Works			
Ammonia is urgently needed for 1) Refrigeration 2) 30 tons per month for Solvay Soda Works at Rosignano 3) Fertilizers	180	560	8,000
b) Aniene Caustic Soda and Chlorine Works			
At each plant: 1) Rome 2) Rosignano) 400 tons caustic soda plus 350 tons chlorine	1,500	1,300	6,500
c) Solvay Soda Works - Rosignano Area			
1) San Vincenzo) 100 Tons/day Caustic Soda	6,000	4,200	500
2) Ponte Ginori) 100 Tons/day Soda Ash			
d) Cisa Viscosa			
1) Rieti 2) Rome) Fabric for clothing	200	—	1,200
e) Cisa Viscosa			
Colle Statte) Carbon Bisulfide	500	500	3,000

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	Tonnage Produced per Month	Import Tonnage Saved per Month	Kilowatts Required
f) Terni Steel Works			
1) Steel	9,000	9,000	4,000
2) Bosco Terni	500	500	500
g) Folonica			
1) Cast Iron	600	600	400
h) Cement Mills			
1) Colle Ferro)	10,000	7,500	2,500
2) Spoleto)	8,000	8,000	2,000
3) Civitavecchia)	8,000	6,000	2,000
i) Paper Mills			
1) Isola di Liri)			3,000
2) Ceprano)			800
3) Tivoli)	350	350	500
4) Rome)			700
j) Mining			
Spoleto Lignite Mines	20,000	20,000	1,200
k) Flour Mills	30,000	30,000	4,000
TOTAL	94,830	88,510	40,800

16. From the above analysis of the requirements of a few of the most important factories it will be seen that nearly ~~ninety~~ forty thousand tons of material can be produced in Italy* from local resources and thus save an equivalent amount of shipping now being brought into this theater of operations.

* each month

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1) Colle Ferro)			
2) Spoleto)	10,000	7,500	2,500
3) Civitavecchia)	8,000	8,000	2,000
	8,000	6,000	2,000
i) Paper Mills			
1) Isola di Liri)			
2) Ceprano)			3,000
3) Tivoli)	350	350	800
4) Rome)			500
			700
j) Mining			
Spoleto Lignite Mines	20,000	20,000	1,200
k) Flour Mills			
	30,000	30,000	4,000
TOTAL	94,830	88,510	40,800

16. From the above analysis of the requirements of a few of the most important factories it will be seen that nearly ninety thousand tons of material can be produced in Italy* from local resources and thus save an equivalent amount of shipping now being brought into this theater of operations.

* each month

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TABLE " G "

17. Summary of future anticipated demand for electric energy for the period 1 September 1944 to 28 February 1945.

Nature of Consumers	Kilowatt Demand	Need
Agriculture	3,600	(a) Essential civilian
Cast Iron Foundry	400	(a) Essential civilian (b) Saves shipping space
Cement Mills	6,500	(a) Military (b) Civilian rehabilitation (c) Saves shipping space
Ceramics and Glass	1,000	(a) Essential civilian
Chemicals	18,000	(a) Essential civilian (b) Saves shipping space
Clothing	200	(a) Essential civilian
Fabric	1,200	(a) Essential civilian
Flour Mills	4,000	(a) Essential civilian
Food (excluding Flour mills)	6,900	(a) Essential civilian
Hemp and Jute	650	(a) Essential civilian
Lumber	4,000	(a) Military (b) Essential civilian
Machinery Manufacturing	3,000	(a) Essential civilian
Military	15,000	

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Foundry	400	(b) Saves shipping space
Cement Mills	6,500	(a) Military (b) Civilian rehabilitation (c) Saves shipping space
Ceramics and Glass	1,000	(a) Essential civilian
Chemicals	18,000	(a) Essential civilian (b) Saves shipping space
Clothing	200	(a) Essential civilian
Fabric	1,200	(a) Essential civilian
Flour Mills	4,000	(a) Essential civilian
Food (excluding Flour mills)	6,900	(a) Essential civilian
Hemp and Jute	650	(a) Essential civilian
Lumber	4,000	(a) Military (b) Essential civilian
Machinery Manufacturing	3,000	(a) Essential civilian
Military	15,000	(a) Workshops and factories
Mining	1,200	(a) Military (b) Essential civilian (c) Saves shipping space

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TABLE " G " (Contd.)

Nature of Consumers	Kilowatt Demand	Need
Paper Mills	5,000	(a) Essential civilian (b) Saves shipping
Printing	500	(a) Essential civilian
Public Institutions	6,000	(a) Essential civilian
Railways	15,000	(a) Military (b) Essential civilian
Rome	13,000	(a) Essential civilian
Rome	20,000	(a) Civilian
Steel Plant	4,000	(a) Military (b) Essential civilian (c) Saves shipping space
Steel Fabricators	500	(a) Military (b) Essential civilian
TOTAL	129,650	

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Public Institutions	6,000	(a) Essential civilian
Railways	15,000	(a) Military (b) Essential civilian
Rome	13,000	(a) Essential civilian
Rome	20,000	(a) Civilian
Steel Plant	4,000	(a) Military (b) Essential civilian (c) Saves shipping space
Steel Fabricators	500	(a) Military (b) Essential civilian
TOTAL	129,650	

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18. Details are given below on specific plants which would be capable of operating if electricity were available.

TERNI = NERA MONTORO AMMONIA WORKS

Plant Condition:

Good. Capable of limited output.

Product:

Ammonia and compounds. 90 Tons during September - November. 180 Tons during December - February.

Uses:

Essential civilian for

(a) Refrigeration

(b) Solvay Soda plant at Rosignano where caustic soda, soda ash and sodium bicarbonate are produced (Sisposition of products of Rosignano plant given later).

(c) Fertilizer. (Four tons of fertilizer can be made from each ton of ammonium sulphate.

Necessary Raw Materials and their Sources:

(a) Coal, either imported or Sardinian.

(b) Pyrites (available in Toscany)

(c) Limestone (available locally)

ANIENE CAUSTIC SODA and CHLORINE WORKS

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Rome Plant

Plant Condition:

Good.

Products:

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Uses:

Essential civilian for

(a) Refrigeration

(b) Solvay Soda plant at Rosignano where caustic soda, soda ash and sodium bicarbonate are produced (Sisposition of products of Rosignano plant given later).

(c) Fertilizer. (Four tons of fertilizer can be made from each ton of ammonium sulphate.

Necessary Raw Materials and their Sources:

(a) Coal, either imported or Sardinian.

(b) Pyrites (available in Toscany)

(c) Limestone (available locally)

ANIENE CAUSTIC SODA and CHLORINE WORKS 4385

Rome Plant

Plant Condition:

Good.

Products:

400 Tons/month Caustic Soda, plus
350 Tons/month of chlorine.

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Uses:

Caustic Soda needed for essential civilian use for

(a) Manufacture of soap

(b) Refining of olive oil

(c) Manufacture of rayon

Chlorine and chlorine products needed for

(a) Water purification

(b) Textile bleaching

Necessary Raw Materials and their Sources:

(a) 200 Tons/Month imported sodium chloride.

(b) Limestone (available locally)

Rosignano Plant:

Plant Condition:

Partially damaged but capable of limited operation.

Products:

450 Tons/Month of Caustic Soda plus
350 Tons/Month of chlorine.

Uses:

Same as products of Rome plant

Necessary Raw Materials and their Sources:

(a) Sodium Chloride (available locally)

(b) Limestone (available locally)

SOLVAY SODA WORKS - ROSIGNANO AREA

Products:

4384

Essential civilian

(a) Caustic Soda) 3000 Tons/Month of each
) during October and November.
) 6000 Tons/Month during

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Necessary Raw Materials and their Sources:

(a) 200 Tons/Month imported sodium chloride.

(b) Limestone (available locally)

Rosignano Plant:

Plant Condition:

Partially damaged but capable of limited operation.

Products:

450 Tons/Month of Caustic Soda plus
350 Tons/Month of chlorine.

Uses:

Same as products of Rome plant

Necessary Raw Materials and their Sources:

(a) Sodium Chloride (available locally)

(b) Limestone (available locally)

SOLVAY SODA WORKS - ROSIGNANO AREA

Products:

4384

Essential civilian

(a) Caustic Soda) 3000 Tons/Month of each
) during October and November.
) 6000 Tons/Month during
(b) Soda Ash) December-February.

Uses:

Caustic Soda is used for

(a) Soap manufacture

(b) Olive oil refining

(c) Synthetic Fibers

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Uses:

Soda Ash is used for

(a) Glass and Ceramics

(b) Textiles

(c) Paper

(d) Caustic Soda and other chemicals

Necessary Raw Materials and their Sources:

(a) Sodium chloride (available locally)

(b) Limestone (available locally)

(c) Ammonia (available locally)

(d) Coke (from imported coal)
about 1500 Tons of coal per month.

Plant Condition:

Good.

CISA VISCOSA PLANTS AT ROME AND RIETI

Condition of Plants:

Good.

Products:

Rayon (continuous)

Fiocco (staple fiber)

Total production - 200 Tons/Month
beginning 1 November.

Uses:

Essential civilian-clothing

Necessary Raw Materials and their Sources:

(a) Caustic Soda (available locally)

(b) Carbon bisulfide (from Colle Statte plant)

(c) Sulphuric acid (available locally)

(d) Cellulose (must be imported, but some

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(c) Ammonia (available locally)

(d) Coke (from imported coal)
about 1500 Tons of coal per month.

Plant Condition:

Good.

CISA VISCOSA PLANTS AT ROME AND RIETI

Condition of Plants:

Good.

Products:

Rayon (continuous)

Fiocco (staple fiber)

Total production - 200 Tons/Month
beginning 1 November.

Uses:

Essential civilian-clothing

Necessary Raw Materials and their Sources:

(a) Caustic Soda (available locally)

(b) Carbon bisulfide (from Colle Statte plant)

(c) Sulphuric acid (available locally)

(d) Cellulose (must be imported, but some
available for initial operation)
Will have to import one ton of
cellulose per ton of finished product.

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CISA VISCOSA - COLLE STATTE

Condition of Plant:

Good.

Product:

Carbon bisulfide, 500 Tons/Month, beginning 1 September.

Uses:

Essential civilian for

(a) Preservation of grain

(b) Extraction of olive oil

(c) Manufacture of synthetic fiber

Necessary Raw Materials and their Sources:

(a) Sulphur (available locally)

(b) Charcoal (available locally)

TERNI STEEL WORKS

Condition of Plant:

Good

Products:

Steel and Iron ingots, steel castings, used in turn to make: Sheets, plate, sections, forgings , locomotive tires, in accordance with the following:

Month	Weight of ingots and castings in tons
Sept.	3,500
Oct.	3,500
Nov.	5,500
Dec.	5,500
Jan.	8,700
Feb.	8,700

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Uses:

Military for construction and repairs

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(b) Extraction of olive oil

(c) Manufacture of synthetic fiber

Necessary Raw Materials and their Sources:

(a) Sulphur (available locally)

(b) Charcoal (available locally)

TERNI STEEL WORKS

Condition of Plant:

Good

Products:

Steel and Iron ingots, steel castings, used in turn to make: Sheets, plate, sections, forgings , locomotive tires, in accordance with the following:

Month	Weight of ingots and castings in tons
Sept.	3,500
Oct.	3,500
Nov.	5,500
Dec.	5,500
Jan.	8,700
Feb.	8,700

4382

Uses:

Military for construction and repairs
Essential civilian for rehabilitation of heavy industries, and Electric Power Plants.

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Necessary Raw Materials and their Sources:

A large number of locally available raw materials are required. The imported materials necessary are:

(a) Coal 1900 Tons/Month

(b) Chromite 29 Tons/Month

(c) Magnesite 27 Tons/Month

(d) Chamotte 40 Tons/Month

CEMENT MILLS

Condition of Plants:

Generally good.

Uses:

Building material for military purposes, and for essential Civilian rehabilitation.

Product:

Cement in accordance with following:

Month	Weight of Cement in Tons
Sept.	12,000
Oct.	14,000
Nov.	20,000
Dec.	22,000
Jan.	24,000
Feb.	26,000

Necessary Raw Materials and their Sources: 4381

(a) Shale (available locally)

(b) Limestone (available locally)

(c) Refractories (available locally)

(d) Coal (imported for Colle Ferro and Civitavecchia
(1) British or American Coal

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CEMENT MILLS

Condition of Plants:

Generally good.

Uses:

Building material for military purposes, and for essential Civilian rehabilitation.

Product:

Cement in accordance with following:

Month	Weight of Cement in Tons
Sept.	12,000
Oct.	14,000
Nov.	20,000
Dec.	22,000
Jan.	24,000
Feb.	26,000

Necessary Raw Materials and their Sources: 387

(a) Shale (available locally)

(b) Limestone (available locally)

(c) Refractories (available locally)

(d) Coal (imported for Colle Ferro and Civitavecchia
    (1) British or American Coal 3,600 Tons/Month
    (2) Sardinian Coal 4,500 Tons/Month

(e) Coal-Lignite at Spoleto and available.

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PAPER MILLS

Condition of Plants:

Good.

Products:

350 Tons/Month Newsprint,
beginning 1 September.

Uses:

Publishing

Necessary Raw Materials and their Sources:

(a) Cellulose (produced locally at plants)

(b) Straw (available locally)

(c) Sodium chloride (available locally)

SPOLETO LIGNITE MINE

Mine Condition:

Good.

Product:

Lignite Coal at the following rate:

Month	Tons Produced
Sept.	10,000
Oct.	13,000
Nov.	16,000
Dec.	20,000
Jan.	20,000
Feb.	20,000

Uses:

4380

Production of manufactured gas and
electricity in Rome.
Steam production in industrial plants.

Necessary Raw Materials:

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Publishing

Necessary Raw Materials and their Sources:

(a) Cellulose (produced locally at plants)

(b) Straw (available locally)

(c) Sodium chloride (available locally)

SPOLETO LIGNITE MINE

Mine Condition:

Good.

Product:

Lignite Coal at the following rate:

Month	Tons Produced
Sept.	10,000
Oct.	13,000
Nov.	16,000
Dec.	20,000
Jan.	20,000
Feb.	20,000

Uses:

4380

Production of manufactured gas and electricity in Rome.
Steam production in industrial plants.

Necessary Raw Materials:

None

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FLOUR MILLS

Condition of mills:

Good.

Product:

30,000 Tons flour/Month

Uses:

Essential Civilian food

Necessary Raw Materials:

Local wheat

BOSCO TERNI

Condition of Plant:

Good.

Products:

500 Tons/Month
Fabricated steel

Uses:

Military (Bridge material)
Essential Civilian Rehabilitation

Necessary Raw Materials:

Scrap steel
Acetylene
Oxygen
Coal (imported) for foundry.

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Local wheat

BOSCO TERNI

Condition of Plant:

Good.

Products:

500 Tons/Month
Fabricated steel

Uses:

Military (Bridge material)
Essential Civilian Rehabilitation

Necessary Raw Materials:

Scrap steel
Acetylene
Oxygen
Coal (imported) for foundry.

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TABLE " H "

19. Showing the monthly requirements in Kilowatts for the demands listed in Table "G".

	Sept. KW	Oct. KW	Nov. KW	Dec. KW	Jan. KW	Feb. KW
Terni - Papigno Carbide Works	9,000	12,000	15,000	18,000	18,000	18,000
Terni Nera Montoro Ammonia Works	4,000	4,000	4,000	8,000	8,000	8,000
Aniene Caustic Soda and Chlorine Works (Rome & Rosignano)	6,500	6,500	6,500	6,500	6,500	6,500
Solvay Soda Works	0	250	250	500	500	500
Cisa Viscosa Works at Rome and Rieti	0	0	1,200	1,200	1,200	1,200
Cisa Viscosa Works at Colle Statte	3,000	3,000	3,000	3,000	3,000	3,000
Terni Steel Works	2,000	2,000	3,000	3,000	4,000	4,000
Terni Cast Iron Foundry	400	400	400	400	400	400
Cement Mills						
Colle Ferro	0	0	1,000	1,500	2,000	2,500
Spoleto	1,000	1,500	2,000	2,000	2,000	2,000
Civitavecchia	2,000	2,000	2,000	2,000	2,000	2,000

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Terni Nera Montoro Ammonia Works	4,000	4,000	4,000	8,000	8,000	8,000
Aniene Caustic Soda and Chlorine Works (Rome & Rosignano)	6,500	6,500	6,500	6,500	6,500	6,500
Solvay Soda Works	0	250	250	500	500	500
Cisa Viscosa Works at Rome and Rieti	0	0	1,200	1,200	1,200	1,200
Cisa Viscosa Works at Colle Statte	3,000	3,000	3,000	3,000	3,000	3,000
Terni Steel Works	2,000	2,000	3,000	3,000	4,000	4,000
Terni Cast Iron Foundry	400	400	400	400	400	400
Cement Mills						4378
Colle Ferro	0	0	1,000	1,500	2,000	2,500
Spoleto	1,000	1,500	2,000	2,000	2,000	2,000
Civitavecchia	2,000	2,000	2,000	2,000	2,000	2,000
Bosco Terni	500	500	500	500	500	500
Paper Mills						
Isola di Liri	1,000	2,000	3,000	3,000	3,000	3,000
Ceprano	800	800	800	800	800	800
Rome	700	700	700	700	700	700
Tivoli	500	500	500	500	500	500

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TABLE " H " (Contd.)

	Sept. KW	Oct. KW	Nov. KW	Dec. KW	Jan. KW	Feb. KW
Mining	600	800	1,000	1,200	1,200	1,200
Flour Mills	4,000	4,000	4,000	4,000	4,000	4,000
Military	4,000	8,000	12,000	15,000	15,000	15,000
Rome:						
Essential) Civilian)	13,000	13,000	13,000	13,000	13,000	13,000
Civilian	10,000	15,000	20,000	20,000	20,000	20,000
Railways	—	—	5,000	15,000	15,000	15,000
Food, excluding flour mills	6,900	6,900	6,900	6,900	6,900	6,900
Public Institutions	6,000	6,000	6,000	6,000	6,000	6,000
Agriculture	3,600	3,600	3,600	3,600	3,600	3,600
Clothing	200	200	200	200	200	200
Printing	500	500	500	500	500	500
Hemp and Juts	650	650	650	650	650	650
Ceramics and Glass	1,000	1,000	1,000	1,000	1,000	1,000
Mechanical	3,000	3,000	3,000	3,000	3,000	3,000
Lumber	4,100	4,100	4,100	4,100	4,100	4,100

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Civilian)						
Civilian	10,000	15,000	20,000	20,000	20,000	20,000
Railways	--	--	5,000	15,000	15,000	15,000
Food, excluding Flour mills	6,900	6,900	6,900	6,900	6,900	6,900
Public Institutions	6,000	6,000	6,000	6,000	6,000	6,000
Agriculture	3,600	3,600	3,600	3,600	3,600	3,600
Clothing	200	200	200	200	200	200
Printing	500	500	500	500	500	500
Hemp and Juts	650	650	650	650	650	650
Ceramics and Glass	1,000	1,000	1,000	1,000	1,000	1,000
Mechanical	3,000	3,000	3,000	3,000	3,000	3,000
Lumber	4,100	4,100	4,100	4,100	4,100	4,100
Total additional needed)	79,950	90,900	109,800	127,750	129,250	129,750
Present Load	57,000	57,000	57,000	57,000	57,000	57,000
Total Demand	136,950	147,900	166,800	184,750	186,250	186,750
Generating Capacity	58,000	76,000	88,000	114,000	155,000	154,000
DEFICIT	78,950	71,900	78,800	70,750	31,250	32,750

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HEADQUARTERS
ALLIED CONTROL COMMISSION
Public Works and Utilities Sub-Commission
APO 394

Below is given:-

(a) Extract from minutes of Electrical Reconstruction Committee Italy.

(b) Copy of letter from Minister of Public Works.

(a) Resolution.

Having given due consideration to the present electricity supply position, affecting both military and essential civilian needs, and the possibility of early rehabilitation of electrical plant and equipment damaged by war action, this Committee recommends that steps be taken for the early importation of 60,000 KW of electrical generating plants for use in this Theater of Operations. In view of the urgency of the matter it is recommended that floating Power plants, if available, should be provided.

(b) Il Ministro
dei Lavori Pubblici 7 Aug. 1944

N° 1099

Lt. Col. L.A. JENNY
Director, Public Works and Utilities
Sub-Commission A.C.C.

SUBJECT: Payment for Electrical Plant.

4376

In view of the very serious shortage of electric power plants in Italy, and the need for importing such plants so as to serve military as well as highly essential civilian

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Having given due consideration to the present electricity supply position, affecting both military and essential civilian needs, and the possibility of early rehabilitation of electrical plant and equipment damaged by war action, this Committee recommends that steps be taken for the early importation of 60,000 KW of electrical generating plants for use in this Theater of Operations. In view of the urgency of the matter it is recommended that floating Power plants, if available, should be provided.

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7 Aug. 1944

Nº 1099

Lt. Col. L.A. JENNY
Director, Public Works and Utilities
Sub-Commission A.C.C.

SUBJECT: Payment for Electrical Plant.

4376

In view of the very serious shortage of electric power plants in Italy, and the need for importing such plants so as to serve military as well as highly essential civilian needs, the Ministry of Public Works has stated that, if such plants can be imported without delay, the Italian Government will assume the responsibility for:

a) The payment of rental for these plants during military Operations, as well as the cost of Operation, and

b) The ultimate acquisition of these plants after they are no longer needed by the Allied Armed Forces.

The Italian Government asks that the payment for the ultimate acquisition of such plants be arranged on a long term basis.

THE MINISTER

Signed: Mancini

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Copy for Col Jenny

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HEADQUARTERS
ALLIED CONTROL COMMISSION
Public Works and Utilities Sub-Commission
APO 394

SOUTHERN ITALY

Report on the availability of electrical energy in Southern Italy progressively for the six months ending Feb.28th 1945.

Also estimated requirements of electrical energy for Military, essential Civilian and factory rehabilitation in Southern Italy for the same period.

Prepared by the Electrical Division
Public Works and Utilities Sub-Commission
ALLIED CONTROL COMMISSION

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essential Civilian and factory rehabilitation in Southern Italy for the same period.

Prepared by the Electrical Division
Public Works and Utilities Sub-Commission
ALLIED CONTROL COMMISSION

4375

L.A. JENNY,
Lt.Colonel, C.E.,
Director.
26th August 1944

Declassified E.O. 12356 Section 3.3/NND No. 785019

HEADQUARTERS
ALLIED CONTROL COMMISSION
Public Works and Utilities Sub-Commission
APO 394

Report on the availability of electric energy in Southern Italy and reduction in generating Capacity due to the destruction of plants by the enemy.

(1) The enemy retreat through Southern Italy was much More rapid than Central Italy. In the first case the conditions were almost always fluid whereas in Central Italy a certain stationary period existed. It is for this reason together with the enemy's greatly improved organisation in demolition squads that the destruction in Southern Italy is considerably less than Central Italy.

(2) In considering the effective capacity of the generating facilities in Southern Italy the following important points should be noted:-

(a) 170,000 KW of the generating capacity is situated in the extreme South. It is known as the Sila Group of Hydro Electric Stations Located in Calabria.

(b) As there are only two high Voltage Transmission lines leading north from the Sila Group, each of 45,000 KW capacity the effective output from the group, apart from Calabria which is fed on a lower voltage system from the same group, is limited to the capacity of these lines and also to the capacity of the Transformers at the Sila Group.

(c) Electricity rationing schemes initiated by A.C.C. and now being handed over to the Italian Government keep the demand within the effective output of the generating plant. This rationing arrangement will have to be maintained until the electrical facilities in Central Italy have been restored and interconnection resumed.

(d) The greatest care is taken to see that the consumption

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almost always fluid whereas in Central Italy a certain stationary period existed. It is for this reason together with the enemy's greatly improved organisation in demolition squads that the destruction in Southern Italy is considerably less than Central Italy.

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(c) Electricity rationing schemes initiated by A.C.C. and now being handed over to the Italian Government keep the demand within the effective output of the generating plant. This rationing arrangement will have to be maintained until the electrical facilities in Central Italy have been restored and interconnection resumed.

(d) The greatest care is taken to see that the consumption of electricity in the Southern Italy area does not exceed the allowable water flow from the Reservoirs. The A.C.C. Southern Italy Electrical Engineer regulates this either by varying the consumption or to a certain extent by the use of the Capuano Steam plant.

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TABLE " A "

Summary of Electrical plant and requirements

(1) Total effective output capacity of generating plant in Southern Italy — 142,600 KW

(2) It is anticipated that the above output capacity will be increased during the winter months due to rainfall. (This does not include Sila group which is limited by Transmission Line capacity). — 10,000 KW

(3) The allocation of Electric power is made by the Allied force Local Resources (Italian) Board Electrical Committee to the various districts. The allotment for September being as follows.

TABEL " A"

District	Allotment in Kilowatts
District 1 UNES	1,500
District 2 Apulia Lucania	42,000
District 3 Campania	23,100
PBS Naples Santa Maria	33,000

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limited by Transmission line capacity).

(3) The allocation of Electric power is made by the Allied force local Resources (Italian) Board Electrical Committee to the various districts. The allotment for September being as follows.

TABEL " A"

District	Allotment in Kilowatts
District 1 UNES	1,500
District 2 Apulia Lucania	42,000
District 3 Campania	23,100
PBS Naples Santa Maria	33,000
ACC Calabria	11,000
Railways (DGMRS)	10,000
TOTAL Demand	120,600

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It is expected that this demand will increase during the winter months. Teble "E" shows the effective output capacity to meet the demand during the months of Sept.1944 to Feb.1945 inclusive. The Italian Government will arrange to ration supplies to keep within this capacity.

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TABLE " B "

Showing the output capacity of the Generating Stations operating in connection with the Grid System in Southern Italy at 26th Aug. 1944.

Name of Station (1)	Location of Station (2)	Output Capacity at 26th Aug.44. KW (3)
Sila Group (H)	Calabria	105,000
Tusciano (H)	Salerno	4,200
Tanagro (H)	Salerno	2,200
Matese I (H)	Benevento	5,200
Capuano (S)	Naples	20,000
Volturno (D)	Naples	6,000
TOTAL Output Capacity		142,600

Matese I. Set is at present out of operation due to breakdown of Alternator repair will be completed at end of Sept.

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Station (1)	Station (2)	KW (3)
Sila Group (H)	Calabria	105,000
Tusciano (H)	Salerno	4,200
Tanagro (H)	Salerno	2,200
Matese I (H)	Benevento	5,200
Capuano (S)	Naples	20,000
Volturno (D)	Naples	6,000
TOTAL Output Capacity		142,600

4372

Matese I. Set is at present out of operation due to breakdown of Alternator repair will be completed at end of Sept.

Sila Group. The total Capacity of the Sila Group is 170,000 KW, the effective output however is less due to the following causes.

(a) Plant is run to suit Reservoir capacity
(b) Transmission Line Limitation
(c) Transformer Limitation.

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TABLE " C "

Showing the output capacity of the Generating Plant connected to the Grid System which is now under repair and the anticipated date of completion.

Name of Station (1)	Location of Station (2)	Output Capacity KW (3)	Anticipated date of Completion (4)
Capuano	Naples	10,000	Nov.
Calore	Avellino	5,000	Nov.
Aventino	Chieti	4,200	Jan.
TOTAL Output Capacity		19,200	

TABLE " D "

Showing the output capacity of the generating plant which is being moved to assist in the rehabilitation programme.

Name of Station receiving plant (1)	Location of Station (2)	Output Capacity KW (3)	Anticipated date of Completion (4)
Matese II	Benevento	(see Table D page 5.	

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Capriano Calore Aventino	Napoli Avellino Chieti	(illegible) 5,000 4,200	Nov. Jan.
TOTAL Output Capacity		19,200	

TABLE " D "

Showing the output capacity of the generating plant which is being moved to assist in the rehabilitation programme.

Name of Station receiving plant (1)	Location of Station (2)	Output Capacity KW (3)	Anticipated date of Completion (4)
Matese II (set from Alto Belice Sicily 3,000 KW) Lete (set from Matese I 5,200 KW)	Benevento Campobasso	(see Table D page.5. Central Italy Report) 5,200	Jan.
TOTAL Output Capacity		5,200	

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TABLE " E "

Showing the output Capacity at present, from repaired plants, by transfer of plants and the additional output to be expected during the winter months due to rainfall.

	Sept. KW	Oct. KW	Nov. KW	Dec. KW	Jan. KW	Feb. KW
Present output Capacity	142,600	142,600	142,600	142,600	142,600	142,600
Output capacity from repaired plants	—	—	15,000	15,000	19,200	19,200
Output capacity from transfer of plants	—	—	—	—	5,200	5,200
Output capacity from increase in water	—	3,000	6,000	8,000	10,000	8,000
TOTAL	142,600	145,600	163,600	165,600	177,000	175,000
Est minimum outage for breakdown and Repairs 10%	14,260	14,560	16,360	16,560	17,700	17,500

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Present Capacity	142,600	142,600				
Output capacity from repaired plants	—	—	15,000	15,000	19,200	19,200
Output capacity from transfer of plants	—	—	—	—	5,200	5,200
Output capacity from increase in water	—	3,000	6,000	8,000	10,000	8,000
TOTAL	142,600	145,600	163,600	165,600	177,000	175,000
Est minimum outage for breakdown and Repairs 10%	14,260	14,560	16,360	16,560	17,700	17,500
Effective output capacity	128,340	131,040	147,240	149,040	159,300	157,500
SAY	128,000	131,000	147,000	149,000	159,000	158,000

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(a) - Additional 20.000 KW for Rome Civilians

The justification for this is that Rome is the most important City in Italy. Yet it is the only City in which we have not been able to give some degree of continious but restricted supply of elec tricity for civilian users. At the present time the civilians obtain electricity only for 16 hours (that is night hours) every forth day. We see no pos sibility of improving this position durin g the next six months, in fact it may have to be reduced. It is not in the interest of public health and safety that such a condition of affairs should be allowed to continue.

(b) - Need for additional electricity for civil purposes if military demand falls off

If the military demand fell off at the end of the six month period this would indicate that the military had left Italy and in fact found suitab le factories already supplied with electricity in their new operational area. It seems to us that such a state of affairs is unlikely since the military are now depending on well established factories who are meeting their demands and will no doubt have to continue to do so. It is important to point out here that the military demand in Southern Italy has not diminished in the least since the military moved forward.

4389

If it should happen that the military demands were decreased after termina tion of hostilities in Italy, the demands which would then be made for the highly essential early rehabilitation of

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fact it may have to be reduced. It is not in the interest of public health and safety that such a condition of affairs should be allowed to continue.

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If it should happen that the military demands were decreased after termination of hostilities in Italy, the demands which would then be made for the highly essential early rehabilitation of key industries would more than offset the reduction of military demands. In fact it is forseen that the demand for electricity would be far beyond the ability to produce it.

(c) - <u>Percentage of generation capacity increase due to increased stream flow and reduction after rains cease</u>

The anticipated increase in production is shown in Table "E", rising gradually from October to January, with a maximum increase of 30.000 KW. However, this will drop off completely during the period from February to April, after which only the normal supply will be available.

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(d) - In addition to the number of plants listed which it is intended to rehabilitate, the Carbide Plant at Terni should be mentioned.

Plant Condition :

Good. Following based on use of one furnace out of three.

Uses :

For production of acetylene which is urgently needed in dismantling damaged machinery, cutting and welding by the military and in the rehabilitation program. Considerable quantities can also be used by the fishing industry when hostilities cease for night seining which would assist on the problem of civilian food supply.

Necessary Raw Materials and Their Sources

(a) - Coke for production of burnt lime for the process and for the carbide furnace mixture. Source artificial gas plants.

(b) - Limestone available locally.

(c) - Imported. Large rectangular carbon electrodes for carbide furnaces.

(d) - Sheet steel for the fabrication of carbide drums. Plant for this work available at the carbide works.

(The plant could produce 3,000 tons of carbide per month. This will require 1,500 tons of coke per month. Gas coke from Gas Plants can be used and based on the ratio of about one ton of saleable coke to three tons of imported coal, experienced by the Rome City Gas Plant, would represent about 4,500 tons of imported coal per month from England.(This coal will be imported in any case for gas production).

(e) - C IEA Viscosa - Rayon manufacture
Rayon is used as a fabrica in the manufacture of many kinds of clothing

both for men and women and, in the absence of silk and wool, is considered

of prime necessity in relieving demands made upon military establishments.

(f) - Transport difficulties
No special transport difficulties are anticipated as the relatively few

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Rayon is used as a fabrica in the manufacture of many kinds of clothing both for men and women and, in the absence of silk and wool, is considered of prime necessity in relieving demands made upon military establishments.

(f) - Transport difficulties
No special transport difficulties are anticipated as the relatively few factories which are mentioned in the report are located in different centers of Italy, most of which are now, or will be served, by railroads. In addition it is anticipated that some of the railroads will have to be gradually electrified, thus further improving that situation.

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(g) - Skilled and un-skilled labour

No labour difficulties have been experienced thus far when new industries are opened up and none are anticipated. Quite the contrary, requests are being made to reopen more factories so as to give work to larg e masses of people who are now unemployed. The factories to be utilized are not new factories in new centers, but old factories in established centers.

(h) - Power for grinding wheat

While we have primarily dealt with the grinding of wheat produced in Italy it is fully realized the wheat is also imported and that, to this extent, our demands would have to be increased.

(i) - Plan for Northern Italy

The situation on electric power for Northern Italy will, without doubt, be a very serious matter. This is based on the assumption that the enemy will attempt to carry on as thorough a program of demolition as was done in Central Italy. Norhtern Italy containes 80% of the country's power producing equipment.

Information on a few important selected plants has been passed to the patriots operating in Northern Italy in an endeavor to save and protect them if possible. Just how much can be accomplished only time will tell. The portable power plant units both large and small are certain to b e

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Information on a few important selected - plants has been passed to the patriots operating in Northern Italy in an endeavor to save and protect them if possible. Just how much can be accomplished only time will tell. The portable power plant units both large and small are certain to b e of help. The purpose, in reccomending portable units, was the fact that they could be moved when they have served their purpose in Central Italy. They will have helped provide the power necessary to rehabilitate enough of the damaged equipment so that they can be moved to more northern locations.

As fast as the transmission lines are repaired the portable units can be moved to new locations where they can perform the same function as before.

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The floating type plants can be located in important harbors on both coasts and used to energize areas around those ports until other types of generation can be repaired and put back into operation.

(j) - Tie of Southern Italy to Central Italy

There are many reasons why it it not possible to tie the Southern Italy Grid with the Central Italy Grid. These are :

(a) - The tie would have to be on the high voltage system and this is badly damaged and will take some months to reinstate.

(b) - There is no surplus energy available in Southern Italy unless the civilian supply is completely cut off. Very strict rationing control exists at the present time in Southern Italy.

(c) - The reservoir capacity in the south is being very carefully watched and the load must not be exceeded otherwise the reservoirs will not last over the dry season.

(d) - The load in the south has risen because industry has been developed in that area due to lack of electricity in Central Italy.

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Declassified E.O. 12356 Section 3.3/NND No. 785019

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GP/V3R/1nm/es

HEADQUARTERS ALLIED COMMISSION
APO 394
ECONOMIC SECTION

Tel: 489081
X-320

203/PWU

7 March 1945

SUBJECT: Preliminary Information, 6,000 KW Steam-Electric Generating Unit.

TO : Allied Force Headquarters, G-5 Section.

1. Reference letter AFHQ, G-5 Section, dated 20 Feb. 1945, Subject: Steam Driven Electric Generators (MGS-216-ENG).

2. It is the plan of the Public Works and Utilities Sub-Commission to use the subject steam driven electric generating equipment initially, at the site of a coal-fired steam plant now partially destroyed by the enemy, and to use the equipment later at a more permanent place as yet undecided. The plant on the site under consideration was of approximately 45,000 KW capacity. The boilers generated steam at approximately the same conditions as that required by the new 6,000 KW plant FE 84004. It is anticipated that sufficient steam capacity will be available from the original boilers of this plant to operate the 6,000 KW plant, thus eliminating the necessity to install the complete new plant initially but at the same time making available the needed electrical output at the earliest practicable date.

3. Due to the extent of destruction to the original turbines the schedule for placing them in service again is indefinite. However, while necessary arrangements are carried out to replace original generating equipment, maximum use will be made of salvageable facilities and services peculiar to steam plant operational requirements.

4. In view of the plan for initial use of the FE-84004 6,000 KW equipment it is not considered practical at this time to furnish information requested in paragraph 2a, of basic communication. However, the proposed action by this office for initial and ultimate use of the 6,000 KW equipment should not preclude the furnishing of the steam plant complete as originally requisitioned, and the necessary layout drawings and instructions for its installation and operation in any general location. Additional drawings can be made in this theatre as required for future use of this equipment. The construction equipment and materials referred to in paragraph 2c, basic communication, will be available in this theater.

CONFIDENTIAL

Declassified E.O. 12356 Section 3.3/NND No. 785019

5. Present plans call for the first deliveries of fuel oil to be in 52 gallon steel drums. Later, it is hoped that the oil can be brought to the plant by railroad tank car.

For the Chief Commissioner:

E. B. McKINLEY
Brigadier General, U.S.A.
Acting Vice President
Economic Section

cc: Requisition Branch

4365

7/3/26

0 9 5 3

Declassified E.O. 12356 Section 3.3/NND No. 785019

Tel.317

SECRET

INTER OFFICE MEMORANDUM

WML/ac

68

Reference : 203/PWU

Subject : Electrical Equipment

7 March 1945

To : DIRECTOR INDUSTRY SUB-COMMISSION
From : Public Works and Utilities Sub-Commission

1) - Attached correspondence may be of interest to you, and I shall be glad if you will return it to me after perusal.

2) - The material for Societh Cartiere Tiburtine - Tivoli seems interesting and perhaps you will say if you wish me to reply asking for it to be sent by air as suggested or whether you will deal with the matter direct.

W.M.LAPPER
Lt-Colonel
Chief Elec. Div.

4365

enclosures

Declassified E.O. 12356 Section 3.3/NND No. 785019

C-O-N-F-I-D-E-N-T-I-A-L

HJR/ao

Tel.489081
Ext. 320

HEADQUARTERS ALLIED COMMISSION
Public Works and Utilities Sub-Commission
APO 394

67

22 Feb. 45

Reference : 203/PWU
Subject : Crew for Floating
Power Plants - Italy

To : ALLIED FORCE HEADQUARTERS
G-5 Section - APO 512

(65)

1) - Reference your letter G-5 : 230.4-4 dated 16 Feb. 1945 with inclosure CAL airgram 32, 6 Feb. 45.

2) - Italian personnel are required in addition to 6 U.S. civilians.

3) - We concur with plan outlined in CAL airgram 32 and urgently request that every effort be made to expedite organization of crew and delivery of Power Plant to this theatre.

For the Chief Commissioner

L.A.JENNY
Colonel, C.E.
Director

C O N F I D E N T I A L

Declassified E.O. 12356 Section 3.3/NND No. 785019

CONFIDENTIAL

Regrets Dft

Enc 66

RECEIVED
P.W. & C. S/C A.C.
23 FEB 1945 203

ALLIED FORCE HEADQUARTERS
G-5 Section
APO 512

Ref. E-1

20 February 1945

SUBJECT: Steam Driven Electric Generators.
(MGS-216-ENG)

TO : Headquarters, Allied Commission, APO 394.

1. Attached is letter SPEOM 384 from the Office of the Chief Engineer dated 6 February.

2. Please furnish without delay the information requested in para 2.

3. The documents enclosed with the attached letter should be retained by the AC for reference. It is requested that the basic letter be returned as a copy has not been kept by this Hq.

For the Assistant Chief of Staff, G-5:

HEADQUARTERS
21 FEB 1945
A. C.

R. V. GRADY,
Major, T.C.,
Economics & Supply.

Incls:

Ltr. as above
and attachments.

Dft RC Koppen
? Regd 22

69 refers

4367

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Declassified E.O. 12356 Section 3.3/NND No. 785019

CONFIDENTIAL

WAR DEPARTMENT
Office of the Chief of Engineers
Washington

6 February 1945

Refer to File No. SPEOM 384(Rehabilitation)

Subject: Commander in Chief
Allied Force Headquarters
APO 512, c/o Postmaster
New York, N.Y.

ATTENTION: Engineer Section.

1. Reference is made to 6000 KW steam driven electric generating plant being furnished on Requisition MGS-216-ENG.

2. In order to properly complete drawings, the following information is desired:

a. Map of site on which the plant is to be built, showing contour of the ground, proximity of source of make-up water, and soil conditions on which to base foundation drawings.

b. Manner of delivering fuel oil to the plant so that provisions can be made for filling the service tanks.

c. Availability in the theater of construction equipment, concrete materials, form lumber and reinforcing steel, as indicated in paragraph 3d below and listed in inclosure No. 1.

3. The following information is furnished.

a. Plot plan, inclosure No. 2, showing overall dimensions required for the site. The spray pond should be located so that prevailing winds will blow away from the plant instead of toward it.

b. A continuous supply of 350 gallons of water per minute will be required for make-up water and plant purposes. This water need not be pure but should be reasonably free of sediment.

4363

Declassified E.O. 12356 Section 3.3/NND No. 785019

SPEOM Steam Driven Electric Generators,
Requisition MGS-216-ENG.

c. 32,000 gallons per day of No. 6 fuel oil will be required for full load operation. Eight each - 15,000 gallon capacity tanks are being supplied. This is sufficient for 90 hours of full load operation.

d. Reinforcing steel will be required in the following amounts:

Size	Feet	Pounds
1/2"	72,000	48,000
3/4"	38,000	57,000
1"	2,300	6,200
		111,200

4. Present plans indicate that a supervising engineer will leave the United States about 1 March 1945, in order to assist in making preliminary arrangements for grading and building foundations, and doing such other work which must be completed prior to the arrival of materials and equipment which are included in the plant. Clearance for this engineer will be requested by separate communication.

FOR THE CHIEF OF ENGINEERS:

L.D. WORSHAM
Brigadier General
Assistant Chief of Engineers.

2 Incls.

1. List Constr. tools and equip. (in dup)
2. Plot plan.

4362

Declassified E.O. 12356 Section 3.3/NND No. 785019

COPY

Dec. 21, 1944

Construction Tools and Equipment:

I EXCAVATING BACKFILL GRADING:

(Bulldozer or
(Tractor, Carry-all or Drog Scraper or
(Power shovel, Crane
Trucks, trailers
*Portable Air Compressor with Air Receiver
Paving breakers, Jackhammers (PNEUMATIC) - Rubber hose and fittings.
Rockdrills, Bull points and wedges, for rock and wood
Hand shovels, long and short-handle-wheel barrows.
6' Crowbars and pinch bars, Saws
Picks with handles
Waterbuckets, dippers
Single diaphragm hand pumps with hose and conns'
Double ----- ------ gasoline driven pumps.
2" - 4" - 6 Gasoline eng. driven rotary pumps.
Suction and discharge rubber hose and fittings for the above pumps.
Scaffold - and hanging planks
Sheeting plant (sq. edge, t and g shiplap) bracing mat'l.
Steel sheeting (Interlockkng) timber.
Jacks--screw, hydraulic. (also trench jack)
Assorted nails.
Carpenters tools.
* Mauls with handles, misc. sizes.

II FORM WORK:

Carpenters Tools: Hammers, saws, squares, levels, nailbars, screw sets, and files, hatchets, axes, adzes.

Form Lumber: 7/8 sheathing (sq. edge, t and g shiplap)
2 x 4, 2 x 6, 2 - 8, 4 x 4, 4 x 6, 6 x 6,
2x10 scaffold planks. Plywood for
Formsurfaces, form-oil (Banana),
4,6,8,10, 16, 20¢ nails
#9 or 10 Black annealed form tic wire.
Several "stones" of black tic wire #20 gal.
Padlocks, hasps, hinges, buffs, gasoline power saw
Skill saw, Blacksmith Forge and Anvil, and
complete tool for same
Grinders and wheels for tools, Goggles

III REINFORCING:

4361

Reinforcing bars, deformed (?) 3/4", 1/2", etc.
" " spreaders (can be made on job)
" " tie wire
" " " " twisters
" " steel cutter
" " " benders

Incl 1

Declassified E.O. 12356 Section 3.3/NND No. 785019

IV CONCRETE:

1 and 2 bag power driven concrete mixers (portable) with elevating material hoppers, watertank, water gauging device.
Waterhose, fittings, washers, etc.
Provision for heating concrete material
Crushed stove (macadam) or gravel
Sand
Cement, regular and quick setting
Water proofing
Water barrels, buckets
Wheelbarrows (F sand, stone, cement)
Concrete buggies (two wheel)
Sq. edge and rd. point shovels
* Maule, 3# hammers
Mortor hoes, tampers,
Cement finishers tools: Trowels, edging tools etc.
Sizal craft or jute to cover concrete surfaces for curing.
Concrete vibrators, external, internal (power driven)
Scaffold and staging lumber,
Concrete joint exp. material
Tar paper
Canvas Tarps

V MASONARY WORK:

Bricklayers: Trowels
Levels
Plumb bobs
Mason line (chort string)
* Hammers
* Cold chisels
* 3# hammers

Mortor mixer: (use 1-bag concrete mixer)
Water proofing (liquid or crystal)
Stove, hoist, stove sled
Material hoist
1/2", - 3/4" single, dduble pullies, well wheels
*3/4", Manila or Sizal Rope
Brick tongs (for unloading and handling)
Mortor and brick hoes
Water buckets, dippers
Sand, lime, cement
scaffold material 2x10 planks, 2x4, 2x6, 2x8,
4x4, 6x8, nails
Flashing material

4360

Declassified E.O. 12356 Section 3.3/NND No. 785019

VI RIGGING, STEEL ERECTION:

Adzes, Air chippers, Air compresson, Drills, Reamers
Augers, bits, axes, backing out punches.
Bars, claw, crow, Pinch
* Single, and double bllcks
Carpenters braces, buckets, center punches
Clevises, cold chisels
Derricks, hoisting equipment, drift pins, eye bolts
Grind stone, emory wheel, Hammers, hatchets
Hooks (cant and timber)
Jacks, (hydraulic, screw, track)
Ladders, levels, (spirit) lôcks
Nails (8, 12, 16, 20, 21)
Old Man
Plumb Bobs
Pneumatic hammers and bucker up, rivet busters forges
Rivet hammers, tongs
Rollers, dollies, (f timbers)
Rope (Manila or sizal) rope slings
*Wire rope (hoisting) saws (crosscut) shackles
Tarpaulins, timber buggies
Misc. wrenches

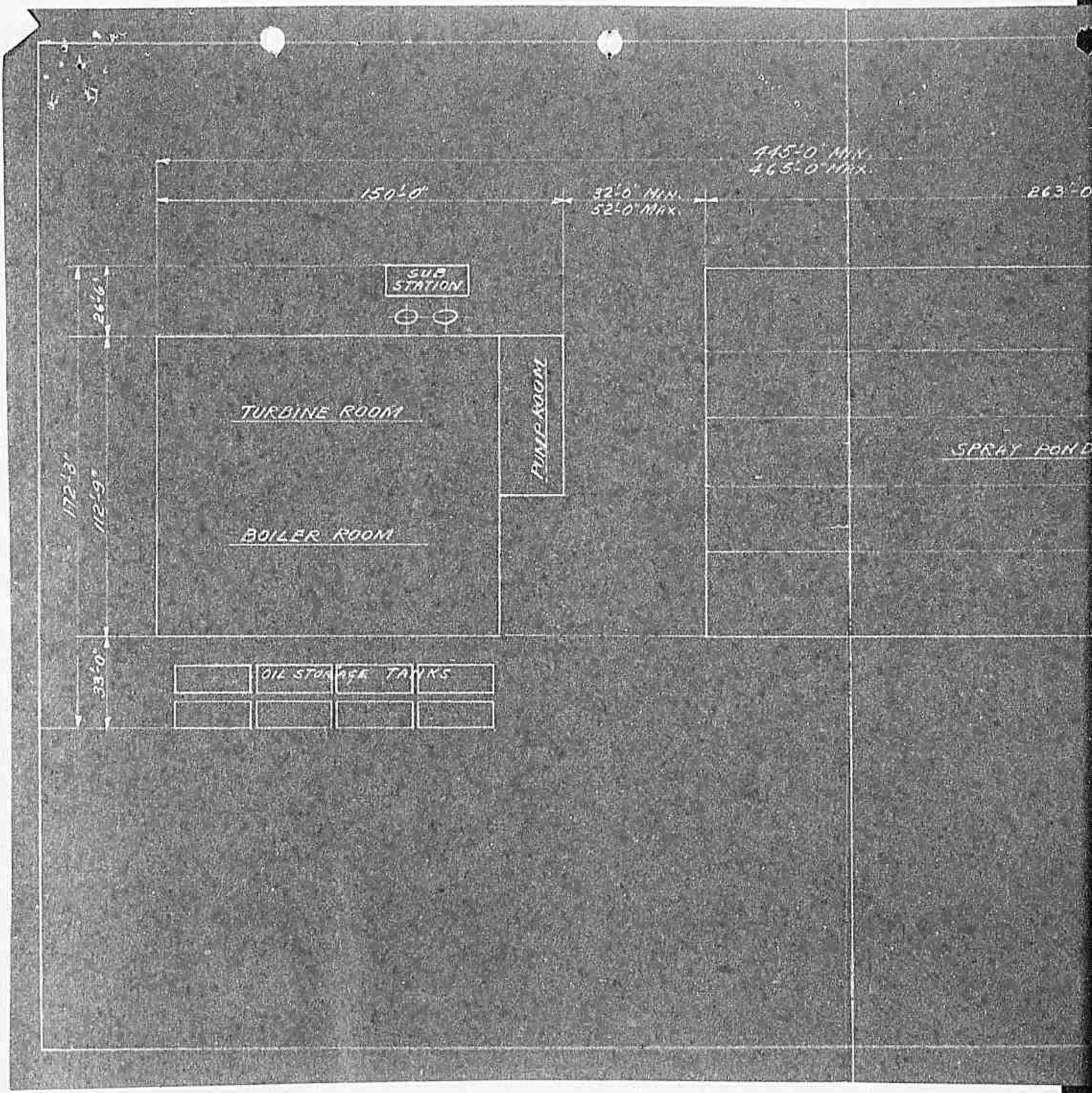
VII Construction Equipment General

Transit, sight Rods, tapes, plumb bobs, Steel (50-100),
Lumber crayon, Surveyers, level, spirit level, squares, surveyers, T'Rod
Filing cabinets, drafting table and equipment.
*8" and 12" starrett levels 6' rulers, arch Seales.

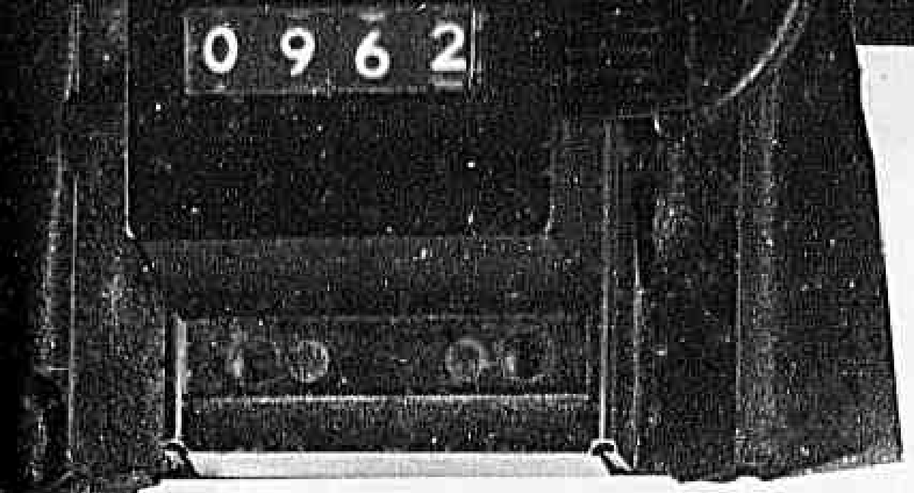
* Small amounts of these items being furnished by manufacturer

0961

Declassified E.O. 12356 Section 3.3/NND No. 775014



Declassified E.O. 12356 Section 3.3/NND No. 775713



465'-0" MIN.
465'-0" MAX.

2'-0" MIN.
2'-0" MAX.

263'-0"

SPRAY POND

182'-0"

PRELIMINARY PLOT PLAN
U.S.A. 4 - W.O. -1087
WEST. ELEC. INT'L CO. NEW YORK.
BURNS AND ROE INC. N.Y.

DRAWN: W.T	JAN. 31ST 1945	SCALE: 1" = 40FT

DRAWING NO 1002

Declassified E.O. 12356 Section 3.3/NND No. 785019

Preliminary Plot Plan
Low Steam Turbine Installation.
60000 KW

4353

Drl 21

Declassified E.O. 12356 Section 3.3/NND No. 785019

CONFIDENTIAL

OPW-U 575 65

RECEIVED
P.W. & U. S/C A.C.
20 FEB 1945 203

ALLIED FORCE HEADQUARTERS
G-5 Section
APO 512

HRT/nch

16 February 1945

G-5: 230.4-4

SUBJECT: Crew for Floating Power Plant for Italy.

TO : Chief Commissioner, Allied Commission, APO 394.

1. Attached Airgram is forwarded for your information.

2. Request you indicate whether or not the Italian personnel are required in addition to the 6 U.S. civilians.

3. This Headquarters is not clear as to whether or not both groups are desired or if the 6 U.S. civilians will be sufficient to operate this plant.

For the Asst. Chief of Staff, G-5:

49 Refers

H. R. THOMPSON,
Captain, CAC.
Estabs. & Pers. Off(A).

1 Incl:
CAL Airgram 32, 6 Feb 45,
Washington, D.C.

HEADQUARTERS
18 FEB 1945
A. C.

Lt Col Rogers

Capt H.R. Thompson
Ref 20/2

6 Refers

Mai Rogers
Please see me on this A/R

CONFIDENTIAL

Declassified E.O. 12356 Section 3.3/NND No. 785019

INCOMING MESSAGE

HEADQUARTERS ALLIED COMMISSION

Originator's Reference: 69191 CA 16
Date/Time of Origin: FEB 161825A

Message Centre No: D/2379
Date Time Rec'd: FEB 181822A
Precedence: ROUTINE

FROM: TROOPERS

TO : ACTION HQ ALCOM INFO FREEDOM WASH FOR CCAC

RESTRICTED

RESTRICTED

PAT 18. Ref MOC 36. Generating equipment. Min of Production are anxious to know whether any of the mobile generating equipment at present in production U KINGDOM full details of which were sent to Col LAPPER in December by hand of Maj TALBOT is suitable for Italian needs. If so it is possible that 5000 kilowatts might be available as suggested in para 4 of Liber 10 to WASHINGTON repeated to ROME.

ACTION

Dist

Action - Econ Sec (5)
Info - A/President
Chief Commissioner
File (2)
Float

Lt Col Lapper

Lets get any equipment we can have!

RA 20/2

19 FEB. 1945

RESTRICTED

HEADQUARTERS 4357

Declassified E.O. 12356 Section 3.3/NND No. 785019

HEADQUARTERS ALLIED COMMISSION
APO 394
ECONOMIC SECTION

RECEIVED
P.W. & U. S/C A.C.
20 FEB 1945 203

ROUTING AND WORK SHEET

Each note must be numbered and each space completely filled in. THIS WORK SHEET MUST NOT BE REMOVED FROM THE CORRESPONDENCE TO WHICH ATTACHED UNTIL ACTION IS COMPLETED AND THEN FILED WITH FILE COPIES OF COMMUNICATION TO WHICH IT PERTAINS. A line will be drawn the full width of the page under each note.

SUBJECT: PAT. 18

No	Date	To	REMARKS	From
1	19/2	Director PW&A S/C	2 copies of PAT 18 attached for action	Meglen

4356

PAGE .....

Use other side

Declassified E.O. 12356 Section 3.3/NND No. 785019

Page .....

No	Date	To	REMARKS	From

DO NOT WRITE BELOW THIS LINE

Declassified E.O. 12356 Section 3.3/NND No. 785019

INCOMING MESSAGE

HEADQUARTERS ALLIED COMMISSION

PW-U 63

Originator's Reference: F 27817

Date/Time of Origin: FEB 161024

RECEIVED
P.W. & U. S/C A.C.
16 FEB 1945 203

Message Centre No: D/2093

Date Time Rec'd: FEB 161100

Precedence: ROUTINE

FROM: AFHQ SIGNED SACMED CITE FHGEG

TO : ALCOM ROME

Lt Col Lappen
Maj 10/2

RESTRICTED

ACTION

RESTRICTED.

Electrical power equipment. 60

Refer your ALCOM 1697 of 14 February. Our letter E-1 of 10 February advised that probable availability of Chinese plant, FE 84004, is 1 June 1945 ? Instead of Jan 15

Maj.

DIST

ACTION P WORKS SC
INFO A/PRESIDENT
CHIEF COMMISSIONER
ECON SEC
FILE (2)
FLOAT

HEADQUARTERS
16 435 45
A. C.

RESTRICTED

Declassified E.O. 12356 Section 3.3/NND No. 785019

CONFIDENTIAL PW+U 62 256

P.W. & U. Sub-C. 16 FEB 1945 203

ALLIED FORCE HEADQUARTERS
G-5 Section
APO 512

Ref. E-1

14 February 1945

SUBJECT: Electric Power Generators.

TO : Headquarters, Allied Commission, APO 394
(Attn: Industry Sub-Commission,
Public Works & Utilities Sub-Commission,
Supply & Resources Division.)

Reference your letters AC/5577/Ind of 19 January 1945 and 203/PWU undated. (45)

1. We assume that PWU letter and Industry Sub-Commission letter both refer to the same subject. At the present the position on various electrical power generators is as follows:

a. Lister (Br) 15 KVA, 230 volts, AC, 50 cycles, single phase, diesal driven. None available at present.

b. Power Units PE-74 (US) 25 kilowatt, 120/208 volts, 60 cycles, three phase, gasoline driven. Available only if replacement is made by single phase generators.

c. Power Unit PE-84 (US) 20 kilowatt, 115 volts, 60 cycles, single phase, gasoline driven. None available at present.

2. Since there are no single phase generators available to replace the PE-74 three phase generators, this offer cannot be accepted.

3. We understand that there is a variety of different electrical currents operating in various sections of the country, and that Italian equipment generally operates on three phase current. In a request of this kind, then, it would appear advisable to quote the actual circuits of the plants to be operated, details being taken directly from the equipment.

4. If your power requirements are not, in the meantime, met from other sources, you may wish to again bring this to our attention. In any case, complete justification must be established for this requirement as for all others.

For the Assistant Chief of Staff, G-5:

D. E. Lathrope 4354

D. E. LATHROPE,
1st. Lieut., C.A.C.
Economics & Supply.

HEADQUARTERS 15 FEB 1945 G-5

CONFIDENTIAL

Declassified E.O. 12356 Section 3.3/NND No. 785019

SECRET

61

RECEIVED
P.W. & U. S/C A.C.
16 FEB 1945 1203

ALLIED FORCE HEADQUARTERS
G-5 Section
APO 512

Ref. E-1

10 February 1945

SUBJECT: Electrical Power Equipment for Central Italy.

TO : Headquarters, Allied Commission, APO 394
(Attn: Supply and Resources Section).

55

Reference LAC 984, repeated to ALCOM.

1. CCAC have advised that every effort is being made to expedite delivery of the floating power plant. However, delivery date of 1 June 1945 is the best that can be expected.

2. We are further advised that the Chinese plant FE 84004 will probably be available 1 June 1945.

3. The same communication has stated that questions with regard to technical matters are being handled by the Chief of Engineers, W.D. directly with the Engineer Section, AFHQ.

For the Assistant Chief of Staff, G-5:

R

Lt Col Kapfer
Eng 16/2

R. V. GRADY,
Captain, TC,
Economics & Supply.

55 copies.

4353

SECRET

Declassified E.O. 12356 Section 3.3/NND No. 785019

203

60

AFHQ

1697 14 FEBRUARY 45 PRIORITY

SECRET FD

SUBJECT IS CENTRAL ITALY ELECTRIC POWER EQUIPMENT FD

PAREN TO AFHQ CITE FSSIG CMA FROM FD ALGOM CITE ACPOL PAREN

PARA ONE FD REFERENCE PARAGRAPH FOUR YOUR FOX XRAY ONE SEVEN FIVE

SEVEN THREE OF THIRTY JANUARY FD FX 17573

PARA TWO FD THIS INFORMATION URGENTLY NEEDED CMA PLEASE ADVISE

WHEN REPLY MAY BE EXPECTED

65

63 meters

4352

PUBLIC WORKS
478906

Book out

Declassified E.O. 12356 Section 3.3/NND No. 785019

Tel. 489081
Ext. 320

HEADQUARTERS ALLIED COMMISSION
Public Works and Utilities Sub-Commission
APO 394

LWL/ac

59

Reference : 203/PWU
Subject : Assignment portable generating units

1 Feb. 45

To : A.M.G. 5th Army
(Attn Maj. D.Gaither - Eng. Section)

1) - Enclosed are 4 copies M.R. Q.M.C. form 487 filed out to cover the five truck K-56 Van Body W/P.E. - 84 Power Units- U.S.A., which have been delivered and bearing the following serial Nº :

6021444
6021785
6022382
6021323
6021854

2) - Please sign and return 3 copies in order to complete our records.

3 Copies returned Lenguth
6 Feb. 45

D. M. GAITHER
MAJOR C. M. P.

W.M.LAPPER
Lt-Colonel
Chief Elec. Div.

4 enclosures - copies M.R. Q.M.C. 487

Declassified E.O. 12356 Section 3.3/NND No. 785019

MEMORANDUM RECEIPT

+ CREDIT + DEBIT SLIP

+ Issued to: D. GAITHER Maj. C.M.P. -Eng. Section A.M.G.-5th Army

+ ~~Turned in by~~:

Place Engineer Section -5th Army A.M.G. Date 27 January 1945

Public Works and Utilities S/C (Name of supply branch) ALLIED COMMISSION-APO 394 Property

Number	Stock Number	Articles
5		Truck K-56 Van Body W/PE - 84 Power Unit -USA Serial Nos.
	- 6081	
	- 6021785	
	- 6022382	
	- 6021323	
	- 6021854	

Received the above-named articles.

D. GAITHER Major C.M.P. 4350
Eng. Section A.M.G.-5th Army

No.

Q. M. C. Form 487. Revised May 14 1931. + Strike out words not applicable.

Declassified E.O. 12356 Section 3.3/NND No. 785019

File 203

COPY

VSR/lam

TEL: 478906 HEADQUARTERS ALLIED COMMISSION
APO 394
Public Works and Utilities Sub-Commission

1 February 1945

58

REFERENCE : 158/PWU

SUBJECT : Portable Electric Generator.

TO : Regional Commissioner, Emilia Region
(Attention Regional Engineer).

1. The Public Works and Utilities Sub-Commission has earmarked for Emilia Region one portable electric generating set having the following characteristics :-

KVA :	20
Volts :	120
Frequency :	60
Phase :	1
Drive :	Le Roy gasoline engine

2. The unit is mounted on a truck, and is United States Army Signal Corps issue truck k-56 van body with PE-84 power unit. The approximate total wieght is twelve tons. The generator is suitable as a source of emergency lighting but in general is not satisfactory as a supply for motors, because it is single instead of three phase, and is designed for 60 cycle operation.

3. It is requested that you notify this Sub-Commission whether this unit will be of use to you, and if so, it is further requested that you furnish a driver, and preferably an assistant driver as well, to move this vehicle from here to your headquarters. The driver should be experienced in the handling of a six-by-six truck.

By Command of Rear Admiral STONE:

W.M. LAPPER.
Lieut-Colonel,
Chief Electrical Division.

4349

Copy & fil 203.

Declassified E.O. 12356 Section 3.3/NND No. 785019

HQ EMILIA REGION
ALLIED MILITARY GOVERNMENT
Public Works & Utilities Division
APO 394 U.S. Army.

RECEIVED
P.W. & U. S/C A.C.
2 FEB 1945 203

29 Jan 1945

Ref : RLX/PWU/02

Subject : Portable Electrical generating Sets

To : Director, Public Works & Utilities Sub-Commission
Allied Commission (Att: Chief electrical div.)
APO 394

1. Request this Headquarters be furnished a listof portable D-c electrical generating Sets now understood to be under Control of Public Works & Utilities Sub-Commission. Also request advice as to whether such units could be issued or loaned to this Headquarters.

William M. Spann
Lt. Col. AUS
Regional Engineer

HEADQUARTERS
1 FEB 1945

This answered by letter 1 Feb. 45 Folio 17 in file 13-8

Lt Col 7 Feb 45

4348

Declassified E.O. 12356 Section 3.3/NND No. 785019

489081
Ext. 320

HEADQUARTERS ALLIED COMMISSION
Public Works and Utilities Sub-Commission
APO 394

LWL/ec
56

Reference : 203/PWU 1 Feb. 45
Subject : Assignment portable generating units

To : A.M.G. 5th Army
(Attn Maj. D.Gaither - Eng. Section)

1) - Enclosed are 4 copies M.R. Q.M.C. form 487 filed out to cover the five truck K-56 Van Body W/P.E. - 84 Power Units- U.S.A., which have been delivered and bearing the following serial N° :

6021444
6021785
6022382
6021323
6021854

2) - Please sign and return 3 copies in order to complete our records.

W.M.LAPPER
Lt-Colonel 4347
Chief Elec. Div.

4 enclosures - copies M.R. Q.M.C. 487

Declassified E.O. 12356 Section 3.3/NND No. 785019

Tel. 489081
Ext. 320

HEADQUARTERS ALLIED COMMISSION
Public Works and Utilities Sub-Commission
APO 394

LWL/ac
56

Reference : 203/PWU — 1 Feb. 45
Subject : Assignment portable generating units

To : A.M.G. 5th Army
(Attn Maj. D.Grither - Eng. Section)

1) - Enclosed are 4 copies M.R. Q.M.C. form 487 filed out to cover the five truck K-56 Van Body W/P.E. - 84 Power Units- U.S.A., which have been delivered and bearing the following serial N° :

6021444
6021785
6022382
6021323
6021854

2) - Please sign and return 3 copies in order to complete our records.

W.M.LAPPER
Lt-Colonel
Chief Elec. Div.

4 enclosures - copies M.R. Q.M.C. 487

Declassified E.O. 12356 Section 3.3/NND No. 785019

INCOMING MESSAGE

HEADQUARTERS ALLIED COMMISSION

Originator's Reference: FX 17573

Date/Time of Origin: JAN 301137

Message Centre No: C/9951

Date Time Rec'd: JAN 301515

Precedence: PRIORITY

FROM: AFHQ SIGNED ALEXANDER CITE FHGEC, FHENG

TO : AGWAR FOR OCS FOR CCAC RPT FOR INFO TO CENTRAL DISTRICT U.K BASE SECTION (LONDON) FOR CABINET SECRETARIAT, AICOM

SECRET

RECEIVED
P.W. & U. S/C A.C.
30 Jan 45. 203.

SECRET.

(This is LAC 984)

Electric power equipment for Central ITALY. Refer CAI 1137.

Para 1. Noted that plants number FE 70000, FE 64001, FE 64000 totaling 9000 kilowatts not now available for release.

Para 2. Substitution of 22 Diesel driven generators 416/500 volt 50/60 cycle acceptable. Arrangement requested in sets of pairs making 11 groups.

Transformers with specifications as stated also acceptable.

Para 3. Additional power required, other than engine generator auxiliaries at stations, estimated to be 10 kilowatts.

Para 4. Advise requested as to date of availability of Chinese plant FE 84004 comprising remaining 6000 kilowatts.

Para 5. Can delivery of floating power plant be expedited

ACTION

SECRET

DIST

ACTION PUBLIC WORKS
INFO A/PRESIDENT
CHIEF COMMISSIONER
ECON
FILE

HEADQUARTERS

Declassified E.O. 12356 Section 3.3/NND No. 785019

SECRET

PW & C 8878

54

RECEIVED
P.W. & U. S/C A.C.
28 JAN 1945 203

ALLIED FORCE HEADQUARTERS
G-5 Section
APO 512

26 January 1945

Ref. E-1

SUBJECT: Electrical Power Equipment for Northern Italy.

TO : Headquarters, Allied Commission, APO 394.
(Attn: Acting Deputy Chief of Staff, Economic Section)

Reference your 203/PWU of 30 Dec. (39)

1. Following for your guidance are the comments and recommendation of the Chief Engineer AFHQ. These observations are concurred by the appropriate General Staff Sections of this headquarters:

"Paragraph 5, Minutes of First Meeting of Electrical Reconstruction Committee, was confusing in that some interpreted it to mean that military requisitions would be submitted for all electrical equipment for Northern Italy. However this was clarified by Paragraph 9, Minutes of Second Meeting of the Committee, wherein it was concluded that AC would submit requisitions except for such equipment as was necessary for military operations, i.e. AC would requisition that equipment defined in Paragraphs 3(b) and 3(c) of their letter.

AAI (Lt Col PAGE) investigated the question of equipment necessary for military operations in Northern Italy and reported that the most practicable means of supplying electrical energy to support military operations in Northern Italy was (a) by use of undamaged plants, (b) by importation from Central Italy which should be possible because of progress in rehabilitation of plants and transmission lines, (c) use of the floating plant now under requisition, if necessary, and (d) rehabilitation of plants.

Therefore it is not contemplated at this time that any military requisition for generating equipment for Northern Italy will be made. Under the above program the problem becomes one of transmission. Colonel PAGE is in London looking into availability of equipment of this nature. AC will be advised of the results of this visit through the Electrical Reconstruction Committee.

HEADQUARTERS
27 JAN 1945
A. C.

4345

SECRET

Declassified E.O. 12356 Section 3.3/NND No. 785019

SECRET

With reference to Paragraph 6 of the reference letter, attention is invited to the fact that the equipment was approved for early delivery primarily because of recommendation of this headquarters that it was a military necessity. Therefore, while it was at the time justified for use in Central Italy, nevertheless it is expected to use it in the way best calculated to serve Allied interests as a whole at time of delivery and installation."

2. There appears to exist a degree of confusion within the AC as to the manner of requisitioning civil technical supplies as a military necessity. Following is a brief statement of the established method for requisitioning all technical supplies, including Electrical Power equipment:

a. Items of technical civil supply defined as coming under "category A" are requisitioned by A.C., approved by AFHQ and passed to CC/S for approval as an essential military requirement. On approval by CC/S such requisitions are forwarded thru military technical channels for procurement by the military as an essential military requirement.

b. Items of supply defined as coming under "category B" fall without the military responsibility and are transmitted by A.C. direct to CCAC for CLAC. AFHQ do not screen or approve such requirements prior to transmission, but may comment to CCAC, if they so desire.

For the Acting Assistant Chief of Staff, G-5:

J.E. Butterworth

J.E. BUTTERWORTH
Colonel, G.S.C.
Chief, Economics & Supply Division

Copy to: Chief Engineer, AFHQ
G-4 AFHQ

4314

SECRET

Declassified E.O. 12356 Section 3.3/NND No. 785019

53

FOR ACTION AFHQ

699 28 JANUARY 45 PRIORITY

52

CONFIDENTIAL PD

SUBJECT IS CENTRAL ITALY POWER EQUIPMENT PD

PARA ONE PD REFERENCE CABLE FOX ONE FIVE EIGHT SEVEN SIX OF TWENTYSEVEN JANUARY ON PORTABLE ELECTRIC PLANTS FOR CENTRAL ITALY PD NOTED THAT RELEASE FROM CHINESE OF FOX EASY SIX FOUR ZERO ZERO ZERO CMA FOX EASY SIX FOUR ZERO ZERO [redacted] ONE AND FOX EASY SEVEN ZERO ZERO ZERO ZERO TOTALING NINE ZERO ZERO ZERO KILO WATTS NOT NOW POSSIBLE PD

PAREN TO FOR ACTION AFHQ FROM HQ ALCOM PAREN

PARA TWO PD SUBSTITUTION BY TWENTY TWO (22) DIESEL DRIVEN (FOUR ONE SIX / 416) SLANT (FIVE ZERO ZERO / 500) VOLT (FIVE ZERO / 50) SLANT (SIX ZERO / 60) CYCLE GENERATORS ACCEPTABLE PD PREFER R TO ARRANGE SETS IN PAIRS CMA THAT IS CMA ELEVEN GROUPS PD TRANSFORMERS ONE FIVE (150) ZERO KILO WATT AMPERES SINGLE PHASE FROM UNITED STATES MILITARY DEPOTS WITH VOLTAGE RANGE AS STATED IN CABLE CMA ACCEPTABLE PD

PARA THREE PD ADDITIONAL POWER OTHER THAN ENGINE DASH GENERATOR AUXILIARIES AT STATIONS ESTIMATED TEN KILO WATTS PD

FE 84004

PARA FOUR PD PLEASE STATE EARLIEST DATE FOR DELIVERY OF FOX EASY EIGHT FOUR ZERO ZERO FOUR OTHER SIX ZERO ZERO ZERO KILO WATTS (6000-kw) CHINESE PLANT PD CAN ANY THING BE DONE TO EXPEDITE DELIVERY OF FLOATING POWER PLANT?

PUBLIC WORKS

614

2 copies sent to Commie Section att. Capt Atkins 30 Jan 45 [illegible]

Declassified E.O. 12356 Section 3.3/NND No. 785019

RECEIVED
P.W. & U. S/C A.C.
27 JAN 1945 203

INCOMING MESSAGE

HEADQUARTERS ALLIED COMMISSION

PWD 152

Originator's Reference: F 15876

Date Time of Origin: JAN 271053A

Message Centre No: C/9617

Date Time Rec'd: JAN 271315A

Precedence: PRIORITY

FROM: AFHQ SIGNED SACMED CITE FHGEC

TO : HQ ALCOM ROME

53 112 250

CONFIDENTIAL ACTION

CONFIDENTIAL.

Central ITALY electric power equipment. Following is paraphrase of signal from CCS, begins:

1. Obstacles have arisen in getting release from Chinese of power equipment under Manufacturers Numbers F E 64000, F E 64001, and F E 70000, totaling 9000 K W. Approved is substitution 22 units, diesel driven, 416/500 KW, 50/60 cycle, probably available in USA July 31st this year. UNITED STATES military depots have on hand equivalent capacity of single phase 150 KVA transformers which will produce 8800-8400-8000-7600-/7200-6800-6400-4400-4200-4000-3800-3600-3400-3200-volts on high side. Generator voltage can be adjusted to give 9000 volts. In case these transformers not repeat not acceptable, special ones to suit required stations will be obtained. Cooling towers for engines will be provided.

2. Advice is wanted regarding preferred grouping of units. Desireble to keep number of stations to minimum. Give estimate of any additional power necessary for other than engine-generator auxiliaries desired at the stations. Engines are designed for maximum ambient 104 degrees Farenheit at 3000 feet elevation.

3. Floating power plant, on present information, will be available 1st June 1945.

End of paraphrese.

Advise acceptance of the above.

4343

DIST

ACTION: FW & U S/C

INFO: A/President
Chief Commissioner
Econ Sec
File 2 Float

CONFIDENTIAL

Declassified E.O. 12356 Section 3.3/NND No. 785019

file 203

51

AFHQ

9854 15 JANUARY 45 ROUTINE

CONFIDENTIAL

REFERENCE YOUR FOX EIGHT FOUR TWO SEVEN ONE DATED THIRTEEN PAREN TO AFHQ CITE FOX HOW GEORGE EASY GEORGE FROM HQ ALCOM PAREN

PARA ONE PD WE ACCEPT SHAEF OFFER OF SIX UNITED STATES CIVILIAN ENGINEERS TO ASSIST IN INITIAL OPERATION AND TRAINING OF ITALIAN CREWS OF FLOATING POWER PLANT WHEN THIS ARRIVES IN THIS THEATRE PD PARA TWO PD IF POSSIBLE THE SIX UNITED STATES CIVILIAN ENGINEERS SHOULD RETURN TO UNITED STATES TO BECOME ACQUAINTED WITH THE FLOATING POWER PLANT COMING TO THIS THEATRE AND COME HERE WITH THAT PLANT

4341

PUBLIC WORKS
614

Declassified E.O. 12356 Section 3.3/NND No. 785019

RECEIVED
P.W. & U. S/C A.C.
14 JAN 1945 203

INCOMING MESSAGE

HEADQUARTERS ALLIED COMMISSION

PWU 50

Originator's Reference: F84271

Date/Time of Origin: JAN 13 18 12A

Message Centre No: C/7773

Date Time Rec'd: JAN 13 1938A

Precedence: ROUTINE

FROM: AFHQ SIGNED SACMED CITE FHGEC

TO ALCOM ROME

CONFIDENTIAL

CONFIDENTIAL.

Crew for floating power plant ITALY. Ref our E-1 of 7 January. SHAEF advise that last para their S-74719, SC-898 of 12 January should read: 6 US civilian engineers already in this theater would be available to go to your theatre to assist in initial operation of plant and complete training of crew.

Please advise your recommendation urgently.

ACTION

Dist

Action - P W & U SC
Info - A/President
Chief Commissioner
Econ Sec
File (2)
Float

HEADQUARTERS
JAN 1945

CONFIDENTIAL 4346

Declassified E.O. 12356 Section 3.3/NND No. 785019

INCOMING MESSAGE

HEADQUARTERS ALLIED COMMISSION

Origin's Reference: FX 88353

Date/Time of Origin: JAN 201808

Message Centre No: C/8779

Date Time Rec'd: JAN 210900

Precedence: ROUTINE

FROM: AFHQ SIGNED ALEXANDER CITE FHGEG, FHGAP, FHGBI, FHGDS

TO : AGWAR FOR CCS FOR CCAC RPT FOR INFO TO CENTRAL DISTRICT U K BASE SECTION (LONDON) FOR CABINET SECRETARIES, SHAEF MAIN FOR G-5, AICOM

RECEIVED
P.W. & U S/C A.C.
21 JAN 1945 203

ACTION

Lt Col Fyffe
PWB 22/1

CONFIDENTIAL.

(This is LAC 964)

Crew for floating power plant-ITALY. Reference SHAEF MAIN cables S-73842, SG-688 of 5 January 45 and S 74719, SG-898 of 12 Januery 45.

SHAEF has agreed that 6 USA civilian engineers are available to come to this theatre to assist in initial operation of plant and complete training of crew.

As plant for ITALY is slightly different type from plant these engineers are presently operating, believed advisable here that they return to USA to familiarize themselves with plant and accompany it to ITALY.

May we have your concurrence with authority to SHAEF to return these civilians to USA. Request names of individuals be submitted to this HQ prior to arrival here for G-2 CI clearance.

Request advise by what date plant will be ready for shipment

65 Refs.

DIST

ACTION PW & U SC
INFO A/PRESIDENT
CHIEF COMMISSIONER
ECON SEC

4339

CONFIDENTIAL

HEADQUARTERS
21 JAN 1945
A.

Declassified E.O. 12356 Section 3.3/NND No. 785019

RESTRICTED

RECEIVED
P.W. & U. S/C A.C.
15 JAN 1945 203

PW & W 797
48

1st Ind to ltr Hq AC, file 158/PWU, dated 20 December 1944

AG 412.41/838 D-O 1st Ind AWK/wfb
HEADQUARTERS MTOUSA, APO 512, 14 January 1945

TO: Deputy President, Allied Commission, APO 394

1. Inquiry has been made, both from MAAF and the United States Signal Corps, relative to availability of either 3-phase or single phase engine driven electric generators.

2. The United States Signal Corps reports none available at this time.

3. MAAF reports a possibility of release of 3-phase 60 cycle generators if a replacement by single phase generators can be made; since no single phase generators are available, this offer cannot be accepted.

4. If generators do become available; either in single or 3-phase, you will be advised.

5. Major Renton of the Public Works Sub-Commission, has further detailed information on this subject.

For the Theater Commander:

HEADQUARTERS
15 JAN 1945
A.

JACK CARTER,
Captain, AGD,
Asst Adjutant General.

1 Incl
n/c

Folio 15-2
file 060
2nd Part

Lt Col Lapsley Inf
Reg 16/1

4338

RESTRICTED

Declassified E.O. 12356 Section 3.3/NND No. 785019

RESTRICTED

Telephone 478805
LGP/bs

HEADQUARTERS ALLIED COMMISSION
APO 394
Public Works & Utilities Sub Commission
Electrical Section

20/12/44

Reference: 158/PWU

Subject : Industrial Power

To : HQ MTOUSA
APO 512

1. Attached hereto is copy of a letter received from HQ AMG 5th Army which is self explanatory.

2. It is understood that such a number of mobile generators, with attendants, may be released by the Air Force Service Command which generators were originally intended for use with radar sets.

3. Your early decision on this question will be appreciated.

W.L.LAPPER, Lt.Colonel
Chief Electr.Division

Encl. Copy ltr HQ AMG 5th ARMY
dtd 8 Dec.44

4337

RESTRICTED

Declassified E.O. 12356 Section 3.3/NND No. 785019

RESTRICTED

9446

COPY

HQ ANG FIFTH ARMY
APO 464 US ARMY

DMG/EEH/cpn

205/9

December 8, 1944

SUBJECT : INDUSTRIAL POWER

TO : HQ A.C. (Attention Chief Commissioner)

1. Due to the shortage of electrical energy in the army area there are many small industrial plants, olive presses and hospitals that are likely to be without power or light for some time to come unless some from of mobile power units can be secured and loaned to them until such time as power is available over the regular network.

2. The motors in most common use in this part of the country are three phase, 50 cycle, 260 volt. Any mobile gasoline or diesel driven generators suitable to operate such motors could be used to advantage in starting many small industries.

3. It is suggested that 30 such units with operating personal be requested from MTOUSA for use in 5th Army Area by A.C. as many of these generators will continue in operation outside the Army area as the rear boundary advances.

Signed: EDGAR ERSKINE HUME
Brigadrier General, GSC
A.C. of S. G-5 Section

4336

Incl #1

RESTRICTED

Declassified E.O. 12356 Section 3.3/NND No. 785019

INCOMING MESSAGE

HEADQUARTERS ALLIED COMMISSION

RECEIVED
P.W. & U S/C A.C.
15 JAN 1945 203

Originator's Reference: FX 85571
Date/Time of Origin: JAN 152154
Message Centre No:
Date Time Rec'd: JAN 160900
Precedence: ROUTINE

FROM: AFHQ SIGNED CG MTOUSA CITE NAENG, MAGDS

TO : PENBASE INFO PENSOUTH, ALCOM

RESTRICTED

INFO - ACTION

RESTRICTED.

Generators is subject.

Reference letter HQ AICOM, file 203 PWU undated and G-5, AFHQ, IRS, file E-1 dated 12 January. Issue to Public works and Utilities Sub Commission, HQ Allied Commission on temporary shipping ticket the following for a period of 90 days is authorized. Power plant, searchlite, 60 inch make and model unspecified, SN (IO VE)- 17-7768.5-0 each 2. For reference, requisition file number 9 TO-ENG-4736 is assigned. To be picked up by Major RENTON on or about JAnuary 16 date

INFO - ACTION

DIST

INFO-ACTION PWU
INFO A/PRESIDENT
CHIEF COMMISSIONER
ECON SEC
FILE (2)
FLOAT

RESTRICTED

HEADQUARTERS
16 JAN 1945
A. C.

Declassified E.O. 12356 Section 3.3/NND No. 785019

46

Tel. 462.081

RJP/lnm

HEADQUARTERS ALLIED COMMISSION
Public Works and Utilities Sub-Commission
APO 394

Reference : Po8/PWU — 12 January 945

Subject : Crew for floating power Plant for Italy

To : Allied Force Headquarters
G-5 Section - APO 512

(44)

1. Reference your letter E-1 dated 7 Jan. 1945 with enclosures SHAEF signal S-72842 - SG 608 of 5 January.

2. Suitable trained personnel is not available in Italy.

3. It is urgently recommended that:

(a) - Complete crew be trained in European Theatre where a similar plant already exists.

(b) - Crew to include six civilians qualified operating engineers to be sent from United States.

(c) - Arrangements be made to commence training of crew in European Theatre before 1st March.

(d) - Everything possible be done to expedite delivery of plant, with trained crew, to Italian Theatre.

4. Request that this Headquarters be advised of action taken.

For the Chief Commissioner

L.A. JENNY 433
Lieut-Colonel, C.E.
Director

Declassified E.O. 12356 Section 3.3/NND No. 785019

General Office 45

R

Tel:478906 HEADQUARTERS ALLIED COMMISSION VSR/lam
APO 394
Public Works and Utilities Sub-Commission

Reference: 203/PWU

SUBJECT : Portable Electric Generating Units
TO : G-5, AFHQ

1. An urgent need exists for small portable electric generating units in order that emergency needs for lighting and industrial power may be met.

2. The type of unit preferred is one driven either by a gasoline or diesel engine, of approximately 20 kilowatts capacity having terminal voltages of 115/230, and operating at 50 cycles. Units meeting these specifications are Signal Corps issue and are known as PE-84. Whether this particular type unit would be available is not know since it is possible that none will be released by military sources. Units of similar voltage characteristics, even if direct current will be useable in areas lacking electricity. If any such sets are available, it is requested that 15 be allocated to the Public Works and Utilities Sub-Commission.

For the Chief Commissioner

L.A. JERNY
Lieut-Colonel, C.E.
Director.

C.C. Requisition Division

4333

Declassified E.O. 12356 Section 3.3/NND No. 785019

CONFIDENTIAL

RECEIVED
P.W. & U.S/C.A.C.
8 JAN 1945 203

44
7406

ALLIED FORCE HEADQUARTERS
G-5 Section
APO 512

Ref. E-1

7 January 1945

SUBJECT: Crew for Floating Power Plant for Italy

TO : Headquarters, Allied Commission, APO 394
(Attn: Director P.W.U. Sub-Commission)

43B

1. A copy of Shaef signal S-73842- SG 688 of 5 January and C.A.C. 1069 was passed to you by hand of Major Renton on 6 January.

2. It is believed that you files contain a complete record on the subject.

3. A further copy of signal S 73842- SG 688 of 5 January is attached.

4. May we be advised urgently of your recommendation for training of an Italian electric power plant crew.

5. It is essential that an early decision be made so that the training program may be implemented.

For the Acting Assistant Chief of Staff, G-5:

8 JAN 1945

R. V. GRADY
Captain, T.C.
Economics & Supply Division

Incl: Signal S-73842- SG 688 of 5 Jan.

46 refers

Lt Col Rapper

We have answered this before. Do you know why they again ask for this?

433 Pg 9/1

CONFIDENTIAL

Declassified E.O. 12356 Section 3.3/NND No. 785019

6597
43B

28 DEC 1944 203

CONFIDENTIAL

ALLIED FORCE HEADQUARTERS
G-5 Section
APO 512

27 December 1944

Ref. E-1

SUBJECT: Crew, Floating Power Plant - ITALY

TO : Headquarters, Allied Commission, APO 394.
(Attn: Chief, P.W.U. Sub-Commission)

1. Reference our E-1 of 9 December, and signals CAL 931, LAC 880 (copies with you).

2. Attached is signal CAL 1069, recommending that Italian crews be trained in ETO, on a unit already shipped to that theatre, by crews previously trained.

3. We have signalled SHAEF, requesting their recommendations and their estimate as to when training could begin.

4. May we have your comments and recommendations.

For the Acting Assistant Chief of Staff, G-5:

28 DEC 1944 A.C.

R.V. GRADY
Captain, T.C.
Econ & Supply Div.

Incl: CAL 1069.

Lt. Col. Lawlor -

4337

CONFIDENTIAL

Declassified E.O. 12356 Section 3.3/NND No. 785019

CONFIDENTIAL

43

Tel: 478906

RECEIVED
P.W. & U. S/C A.C.
-9 JAN 1945 263

VRS/lam

HEADQUARTERS ALLIED COMMISSION
APO 394
Public Works and Utilities Sub-Commission

9 January 1945

Subject: Transmittal of Correspondence Received from G-5

To : Chief Electrical Division ✓

1. Transmitted herewith is correspondence given to me by Captain R.V. Grady, G-5 when I was last at AFHQ. He would appreciate our views on Message AFSC No. 1989/05.

43A

VINAL S. RENTON
Major Infantry
Chief Operation and Transm. Dept.
Electrical Division

Inclosure:
Msg AFSC No. 1989/05 Copy No. 5
Letter from G-5 to Alcom, 27.12.1944
Msg AFSC No. 259/24 Copy No. 1

4339

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Declassified E.O. 12356 Section 3.3/NND No. 785019

RECEIVED
P.W. & U.S/C A.C
8 JAN 1945 2030

HEADQUARTERS ALLIED COMMISSION
APO 394
CIVIL AFFAIRS SECTION

Ref: 3/11.B/CA

Tel. Ext. 525

5 Jan. 45.

SUBJECT: Galeta Power Plant.

TO: Economic Section. ✓

1 When I was in London before Christmas, Major Ellis, (C.A. War Office), informed me that he could not distinguish in the indents you had already submitted which were specifically directed to the rehabilitation of the above mentioned Power Plant.

2 He asked me to say that he thought there would be a greater chance of obtaining the plant if you would either

(a) indent for it specifically or

(b) indicate which serial numbers on your existing indents referred specifically to the above mentioned plant.

G.R. Upjohn

G.R. UPJOHN, Brig.,
VP CA Section,
DCOS, AC.

Lt Col Rapper

What does he mean?

Draft ?/

Checked into This 30 Jan 45
but found nothing specific
except Folio 46 Encl 142
"Requisitions for Materials and
supplies". This returned to
major Price.

30 Feb 45 GRUpjohn

GRU/sg

6403

6 JAN 8

Declassified E.O. 12356 Section 3.3/NND No. 785019

RECEIVED
P.W. & U. S/C A.C.
6 JAN 1945 203

AGWAR FOR OCS FOR CCAC INFOARMD FOR FYGNG CRA UK BASE FOR CABINET SECRETARIES

FOR BCS COMZONE AND PEDBARK PD

9218 4 JAN 45 PRIORITY

CONFIDENTIAL PD THIS IS MOC THREE PD REFERENCE IS MADE TO CCM FOUR AND LAC EIGHT FOUR EIGHT IN CONNECTION WITH SIX NAUGHT NAUGHT NAUGHT NAUGHT KW REQUESTED IN REQUISITION NOS TWO CTC SIX ENG PD PAREN TO AGWAR FOR OCS FOR CCAC INFO ARMD FOR FYGNG CRA UK BASE FOR CABINET SECRETARIES FOR BCS COMZONE AND PEDBARK PD FROM HQ ALCOM CRA ECONOMIC SECTION PAREN IT IS STATED IN CCM FOUR THAT OF THE SIX NAUGHT NAUGHT NAUGHT NAUGHT KW REQUISITIONED 60,000-KW RESPONSIBILITY FOR TWO NAUGHT NAUGHT NAUGHT NAUGHT WAS ASSIGNED TO CIVILIAN AGENCIES OF 20,000-KW CCAC PD IT IS ALCOM UNDERSTANDING THEN ARMD THAT A DIVERSION OF FIVE NAUGHT NAUGHT NAUGHT 5000-KW KW HAS BEEN TENTATIVELY AGREED TO PD THIS EQUIPMENT WAS PROCURED BY FEA AS LEND LEASE FOR THE RUSSIANS PD FROM WRIGHT AERONAUTICAL COMPANY UNIT AT PATTERSON NEW JERSEY CAN BE PROCURED TWO FIVE NAUGHT KW PD AS TO TEN REMAINING ONE FOUR SEVEN FIVE NAUGHT KW REQUEST 250-KW 14,750-KW IS MADE FOR FEA IN COOPERATION WITH WAR PRODUCTION BOARD TO PROCURE SUCH UNITS AS MAY BE AVAILABLE WITHIN A RANGE OF FROM THREE NAUGHT NAUGHT TO ONE NAUGHT NAUGHT NAUGHT KW CAPA- 300-KW 1000-KW CITY PER UNIT PD ALL UNITS MUST OPERATE AT FIVE NAUGHT CYCLES AND MUST BE COMPLETE IN 50-KW EVERY RESPECT PD WAR PRODUCTION BOARD IS FULLY AWARE OF ALCOM REQUIREMENTS AND ALLOWABLE VARIATIONS PD IT IS HOPED THAT SUFFICIENT HIGH PRIORITY CAN BE OBTAINED BY CIVILIAN AGENCIES SO THATPROCUREMENT AND DELIVERY CAN BE EFFECTED AS SOON AS POSSIBLE TO MEET MOST ESSENTIAL CIVIL NEEDS PD ADVISE STATUS CONCERNING PROGRESS OF PROCUREMENT PD

4323

ECONOMIC SECTION

470

ROBERT A. MARTINO
LT. COLONEL, G.S.C.,
REQUISITION DIVISION

NICHOLAS PIOMBINO
CWO, USA
ASST ADJUTANT

Declassified E.O. 12356 Section 3.3/NND No. 785019

Tel.489081

HEADQUARTERS ALLIED COMMISSION
Public Works and Utilities Sub-Commission
APO 394

WML/a.

Reference : 203/PWU
Subject : Crew, floating power plant - Italy

4 Jan. 45

40

To : ALLIED FORCE HEADQUARTERS - G-5 Sec.

1) - Reference your letter E-1 dated 27 Dec. 44 and Signal Cal.1069.

2) - We have no comments to offer until reply is received from SHAEF.

By command of Rear Admiral Stone,

W.M.LAPPER
Lt-Colonel
Chief Elec.Div.

4327

Declassified E.O. 12356 Section 3.3/NND No. 785019

HEADQUARTERS ALLIED COMMISSION
APO 394
ECONOMIC SECTION

LAJ/cs/RC/mew

Tel. 489081
Ext. 320

30 December 1944

203/ENU.

SUBJECT: Electrical Power Equipment for Northern Italy

TO : Chief, Economics and Supply Division, G-5, AFHQ.

1. Ref. your El. 14 December 1944.

2. The trip of Cols. Jenny and Lapper to Washington has clearly shown the need for making requisitions for electrical equipment a Military requirement, if it is expected to obtain such equipment in time to be of value in the early rehabilitation, from which Army forces will greatly benefit. These officers so advised the Chief Engineer of AFHQ, and we are, therefore, in agreement that AAI, or now 15th Army Group, prepare requisitions and obtain equipment for immediate requirements.

3. In order to clarify this question, it is our understanding that there are three broad categories of electric power equipment (or any other) requirements:

a) Operational military requisitions.

b) The Military program for civilian supply (i.e., those civilian supplies which fall within the criterion of "preventing disease and unrest" -- what we have been calling Category "A").

c) The non-military program of civilian supply -- what we have been calling Category "B".

4. Our understanding of the Chief Engineer's intention at the Electrical Reconstruction Committee is that the 15th Army group will requisition any equipment deemed to be required under paras 3 (a) and 3 (b), and that therefore no requisitions will be submitted by the Allied Commission, through G-5, in the ordinary procedure applicable to our "military necessity" requisitions for civilian supplies (Category "A"). We will of course work with the 15th Army group in any necessary determinations of equipment needed, especially under para 3 (b). If it is believed that equipment for the North should be requisitioned under para 3 (c), we will of course do that directly through the COM-MOS series.

Declassified E.O. 12356 Section 3.3/NND No. 785019

5. It is also our understanding that the equipment to be requisitioned will be for the exclusive use of Northern Italy and that this plant or equipment will be installed either by Military forces or civil forces under the direction of our Public Works and Utilities Sub-Commission, and that whatever plant or equipment is not installed and used by Military forces will be placed at the disposition of AC.

6. As you know, 40,000 Kw. of mobile power plant was obtained in Washington as a military requirements for civilian supply -- that is, the 40,000 Kw. falls under para 3 (b) above. This equipment was obtained by AC to be used in its task of rehabilitation of key industries in Central Italy to permit of early essential civilian rehabilitation and thus prevent disease and unrest. There has been some discussion of the possibility that this 40,000 Kw. might have to be used in the North, in spite of the fact that it was justified and approved by COAC on the basis of its use in Central Italy. We would like to make it clear in this connection that (a) it is our present intention to use this plant to aid in the rehabilitation of Central Italy; and (b) the Allied Commission would agree to having this plant diverted to use in the North only if an equal amount of plant (or a corresponding amount of power) were diverted from the military stocks or uses and placed at the disposition of the AC for essential civilian purposes in Central Italy.

7. We should like to be advised at an early date, what equipment the Army plans to requisition for Northern Italy, so that we may promptly review the situation and determine whether or not additional plant is needed for North Italy (under para 3 (c) above) over and above that which the Army is to requisition now for the exclusive use of Northern Italy. This will also depend upon whether or not equipment now destined for Central Italy is used in Northern Italy, and whether or not the Army will remove its factories and other establishments from Central Italy to North Italy, thus relieving electricity now used by Army plants in Central Italy and permitting us to use such energy for early essential civilian rehabilitation.

8. We hope you will advise us promptly if there is any difference between our interpretation of the matters discussed above, and the interpretation at AFHQ.

For the Chief Commissioner:

L. D. DENSMORE
Colonel, F A
Acting Deputy Chief of Staff
Economic Section

4325

Declassified E.O. 12356 Section 3.3/NND No. 785019

ALLIED [redacted] COMMISSION

INTER-OFFICE MEMORANDUM

SUBJECT: Elec. Plant for N. Italy
Mr. Cleveland

FILE No. 27/12

TO : Herewith reply to G-5 A.F.H.Q. revised as discussed last evening.

Lt Col Epper

This is in accordance with our meeting with Mr. Cleveland. He may revise it, but is as I understand what he wants.

Declassified E.O. 12356 Section 3.3/NND No. 785019

Tel.489081
Ext.320

LAJ/ce

HEADQUARTERS ALLIED COMMISSION
APO 394
Economic Section

203/PWU. Revised ref fol 39

27 Dec. 44

Return to P.W.X when signed

SUBJECT: Electrical Power Equipment for Northern Italy.

TO : Chief, Economics and Supply Division, G-5, A.F.H.Q.

Was revised by Mr. Cleveland Dec 31/44

35

1. Ref. your E 1, 14 December 1944.

2. The trip of Cols. Jenny and Lapper to Washington has clearly shown the need for making requisitions for electrical equipment a Military requirement, if it is expected to obtain such equipment in time to be of value in the early rehabilitation, from which Army forces will greatly benefit. These officers so advised the Chief Engineer of A.F.H.Q. and we are, therefore, in agreement that A.A.I., or now 15th Army group, prepare requisitions and obtain equipment for immediate requirements.

3. It is our understanding that the 15th Army group will requisition equipment needed for the early rehabilitation of electrical plants and transmission lines in Northern Italy to serve Military and essential civilian needs. Under essential civilian needs we mean such requirements as electricity for hospitals, pumping stations, tramway services, when required by the Army, and such other essential utility needs as are the responsibility of the Army to restore upon entering a community.

4. It is also our understanding that the equipment to be requisitioned will be for the exclusive use of Northern Italy and that this plant or equipment will be installed either by Military forces or civil forces under the direction of our Public Works and Utilities Sub-Commission, and that whatever plant or equipment is not installed and used by Military forces will be placed at the disposition of A.C.

Declassified E.O. 12356 Section 3.3/NND No. 785019

5. We are given to understand that the 40,000 KW. plant which was obtained in Washington as a Military requirement for Central Italy, may be diverted to Military uses in the north. This equipment was obtained by A.C. to be used in its task of rehabilitation of key industries in Central Italy to permit of early essential civilian rehabilitation and thus prevent disease and unrest. It must be understood that, if the Army should require that equipment for Military needs in North Italy, the Army immediately place a Military requisition for an equivalent amount of equipment for Central Italy, so as to permit A.C. to carry out its appointed tasks.

6. We should like to be advised at an early date, what equipment the Army plans to requisition for Northern Italy, so that we may promptly review the situation and determine whether or not additional plant is needed for North Italy over and above that which the Army is to requisition now for the exclusive use of Northern Italy. This will also depend upon whether or not equipment now destined for Central Italy will be left in Northern Italy, if moved to that area, and whether or not the Army will remove its factories and other establishments from Central Italy to North Italy, thus relieving electricity from Army plants in Central Italy and permitting us to use such energy in our early essential civilian rehabilitation.

7. The above questions should be settled at an early date.

L.D. DENSMORE
Colonel,
Acting Dep.Chief of Staff,
Economic Section.

c.c. to: P.W. & U. S/C.

4322

Declassified E.O. 12356 Section 3.3/NND No. 785019

37

CHIEF ENGINEER AFHQ

8550 211400 ROUTINE

CONFIDENTIAL

PARA PD UNDERSTAND THERE ARE FIFTEEN PORTABLE ELECTRICAL GENERATING UNITS AVAILABLE OF TWENTYFIVE KVA CAPACITY PD

PAREN TO CHIEF ENGINEER AFHQ FROM HQ ALCOM FOR JENNY SIGNED STONE CITE EIGHT FIVE FIVE ZERO PAREN

PARA TWO SEND DESCRIPTIVE PARTICULARS AND TYPE OF FUEL USED PD

PARA THREE REQUEST THAT THESE UNITS BE ALLOCATED TO ALLIED COMMISSION FOR USE AS WHEN REQUIRED

8550

4327

PUBLIC WORKS

614

Declassified E.O. 12356 Section 3.3/NND No. 785019

LAJ/ce

36

HEADQUARTERS ALLIED COMMISSION
APO 394
Economic Section

203/PWU. 19 Dec.44

SUBJECT: Electrical Power Equipment for Northern Italy.

TO : Chief, Economics and Supply Division, G-5, A.F.H.Q.

35

1. Ref. your E-1, 14 December 1944.

2. The trip of Cols. Jenny and Lapper to Washington has clearly shown the need for making such requisitions a Military requirement if it is expected to obtain equipment in time to be of value in the early rehabilitation. These officers so advised the Chief Engineer of A.F.H.Q. and we are, therefore, in agreement that A.A.I., or now 15th Army group, prepare requisitions for immediate requirements. Whether or not requisitions for civil requirements, in addition to the Military equipment, will be needed for North Italy depends entirely upon what conditions we will find when we get there.

For the Chief Commissioner,

L.D. DENSMORE
Colonel,
Acting Dep. Chief of Staff
Economic Section.

Return to PWXV S/C

This letter was not sent but held by Mr Cleveland from 19 Dec to 26 Dec when he called for me to discuss it. The result was the preparation of the letter of 27 Dec. 1944

L.A.J. 27/12

Declassified E.O. 12356 Section 3.3/NND No. 785019

P.W.& U. 5702

35

CONFIDENTIAL

ALLIED FORCE HEADQUARTERS
G-5 Section
APO 512

RECEIVED
P.W. & U. S/C A.C.
16 DEC 1944 203

14 December 1944

Ref. E-1

SUBJECT: Electrical Power Equipment for Northern Italy

TO : Headquarters, Allied Commission, APO 394
(Attn: Economic Section)

30

1. Reference your letter 203/PWU of 5 December. Your letter was referred to the Chief Engineer on 9 December. He has replied as follows:

"I advised Colonel Jenny and repeated the advice at meeting of the Electrical Reconstruction Committee on 22 November, at which representatives of AAI and AC were present, that AAI should determine the electric generating equipment, if any, that is necessary to support military operations and submit military requisitions ror same. I also advised that equipment beyond these needs would have to be thoroughly justified by proper sub-commissions of AC. As to this latter class, no committments were made by me."

2. If this conflicts with your present understanding, let us have your further comments.

For the Acting Assistant Chief of Staff, G-5:

HEADQUARTERS
16 DIC 1944
A. C.

J. E. Butterworth

J. E. BUTTERWORTH
Colonel, G.S.C.
Chief, Economics & Supply Division

36 refers

38+39 refer

Return to P W & U file

4319

CONFIDENTIAL

Declassified E.O. 12356 Section 3.3/NND No. 785019

33

HEADQUARTERS ALLIED COMMISSION
APO 394
Public Works and Utilities Sub-Commission

203

15 Dec. 1944

Requisition

Memo. for Mr. Antolini.

Important point to be discussed in Washington.
PRIORITY FOR CIVIL REQUISITIONS.

I have stated on many occasions since my return from Washington that, unless the F.E.A. is given a good priority on requisitions for civil material or equipment placed by us it will take 1 year or more before these can be shipped. Therefore, some definite procedure should be established in Washington giving the F.E.A. a high priority, possibly an A-I, (as compared with Military AA-I) on such requisitions where we request URGENT action. We on the other hand should then carefully review all requests and only ask for URGENT action if, in our opinion, the matter under review is one of absolute first priority.

Copy to file 202.

L.A. JENNY,
Lt-Colonel, C.E.,
Director.

4318

Declassified E.O. 12356 Section 3.3/NND No. 785019

INCOMING MESSAGE

HEADQUARTERS ALLIED COMMISSION

Req Div 32

RECEIVED
P.W. & U S/C A.
15 DEC 1944 203

Originator's Reference: FX68263 Message Centre No: C/4034

Date/Time of Origin: DEC 132004A Date Time Rec'd: DEC 132330A

Precedence: ROUTINE

FROM: SIGNED CG MTOUSA CITE HAENG, HAGDS

TO : CO PENBASE INFO CO PENSOUTH, ALLIED COMM ROME

RESTRICTED

ACTION

RESTRICTED.

Issue for 120 days on temporary shipping ticket of the following is authorized.

Generator set, portable, 5 KW, 110 V, single phase, 60 cycle, AC, SNL 17-5405.500-000 each one to the Allied Commission for use at wheat docks at CASTELLAMARE. For reference purposes requisition file number MTO-ENG-4543 applies.

Lt Col Rogers hwl
Ind 15/12

DIST

ACTION - REQ DIV (2)
INFO: CHIEF COMMISSIONER
ECON
FOOD
FILE
FLIGHT
431

Copy handed to Capt Ryan-Jonactur 18/12/44 Rmed

RESTRICTED

HEADQUARTERS
14 DEC 1944
A. C

cc: PWU S/C
15 Dec 44

Declassified E.O. 12356 Section 3.3/NND No. 785019

CONFIDENTIAL

RECEIVED
PAN. & U.S/C A.C.
11 DEC 1944 203

5273

31

ALLIED FORCE HEADQUARTERS
G-5 Section
APO 512

Ref. E-1

9 December 1944

SUBJECT: Power Equipment for Central Italy.

TO : Headquarters, Allied Commission, APO 394.
(Attn: Public Works & Utilities Sub-Commission)

Reference your 203/PWU of 24 November.

1. Attached for your information is a copy of LAC 880, dispatched by this headquarters in answer to CAL 931.

2. It is understood that this matter was discussed and agreed between the Public Works & Utilities Sub-Commission AC and the Engineer Section MTOUSA.

For the Acting Assistant Chief of Staff, G-5:

J. E. BUTTERWORTH,
Colonel, G.S.C.
Chief, Economics & Supply.

Incl:

LAC 880

Copy to:

Engineer Section, MTOUSA.

Lt Col Draper
This does not seem to require any action. You have replied before re training of U.S. personnel, not Italians as suggested.
Agreed, [illegible] 11/12
-5315

CONFIDENTIAL

Declassified E.O. 12356 Section 3.3/NND No. 785019

HEADQUARTERS ALLIED COMMISSION
APO 394
ECONOMIC SECTION

Tel: 489081 - x-320

LAJ/ce/ram

203/PWU

5 December 1944

SUBJECT: Power Equipment for Central Italy

TO : AFHQ G-5 Section (Att'n: E & S Division)

1. Reference your letters E 1 of 12 November and 25 November respectively.

2. The reply to your letter of 12 November was held up pending the return to Italy of Lt. Col. Lapper, but a reply was made and our records indicate that this reply left Headquarters AC on 23 November 1944, copy attached. Our reply and your letter of 25 November 1944 must have crossed each other.

3. As you have noted, Col. Jenny, while in Washington, gave notice on 27 October 1944 that additional portable electrical equipment would be required for Northern Italy and that a requisition would be prepared upon his return to Italy. The question of preparing a requisition for Northern Italy was presented by the AC representative on the Electrical Reconstruction Committee, which is headed by Major General D. McCoach, Chief Engineer of AFHQ, at the meeting of this Committee, held on 22 November 1944. The AC representative stressed the point that, unless such a requisition were made as a Military requirement, it would be doubtful if such equipment could be brought to Italy in time to be of value in the early rehabilitation, so as to serve Military and essential civil needs. It was agreed at that meeting that this matter should be handled as a Military requirement and that AAI should make a study of the requirements and place a requisition for such equipment.

35 letters

A. G. ANTOLINI
Acting Deputy Chief of Staff
Economic Section

Attachment (1)
Reply to let. of 12 Nov.

Ref. to PWU 21c
file signing

Ref. Sec

4315

Declassified E.O. 12356 Section 3.3/NND No. 785019

29

LAJ/oe

Tel. 489081
Ext. 320

HEADQUARTERS ALLIED COMMISSION
APO 394
Economic Section

28 Nov. 44.

203/PWU.

SUBJECT: Power Equipment for Central Italy.

TO : AFHQ. G-5 Section (att: E. & S. Division)

1. Ref. your letters E 1 of 12 Nov. and 25 Nov. respectively.

2. The reply to your letter of 12th of November was held up pending the return to Italy of Lt.Col. Lapper, but a reply was made and our records indicate that this reply left Headquarters A.C. on 23 November 1944. Our reply and your letter of 25 November 1944 must have crossed each other.

3. As you have noted, Col. Jenny, while in Washington, gave notice on 27th October 1944 that additional portable electrical equipment would be required for Northern Italy and that a requisition would be prepared upon his return to Italy. The question of preparing a requisition for Northern Italy was presented by the A.C. representative on the Electrical Reconstruction Committee, which is headed by Major General D. McCoach, Chief Engineer of AFHQ, at the meeting of this Committee, held on 22nd November 1944. The A.C. representative stressed the point that, unless such a requisition were made as a Military requirement, it would be doubtful if such equipment could be brought to Italy in time to be of value in the early rehabilitation, so as to serve Military and essential civil needs. It was agreed at that meeting that this matter should be handled as a Military requirement and that AAI. should make a study of the requirements and place a requisition for such equipment.

4314

A.G. ANTOLINI,
Vice-President,
Economic Section.

Declassified E.O. 12356 Section 3.3/NND No. 785019

INCOMING MESSAGE

HEADQUARTERS ALLIED COMMISSION

P-W-U-2

Originator's Reference: S-69053-SG600

Date/Time of Origin: DEC 011912A

Message Centre No: C/2776

Date Time Rec'd: DEC 041600A

Precedence: ROUTINE

FROM: SHAEF MAIN SIGNED EISENHOWER CITE SHGES

TO : AFHQ INFO AGWAR FOR COMBINED CHIEFS OF STAFF

RECEIVED
4 DEC 1944
203

CONFIDENTIAL.

INFO - ACTION

Reference CCS cable to AFHQ WX-67618 dated 24 November 1944 and CAL 931.

1. Power equipment for Central ITALY is subject.

2. Opinion here is that alternative to the War Department providing trained personnel in the UNITED STATES, the crew could be recruited from either the Mediterranean and European Theatres or both. The selected crew would be trained on similar floating power plants to be used in the European Theatre.

3. This would enable work and delivery of the floating plant to proceed without delays arising from the selection and training of the crews in the UNITED STATES and a considerable saving in time in putting the plant to work in ITALY would be effected, if the above plan could be followed.

INFO - ACTION

DIST

INFO-ACTION: P.Works 2

INFO: Chief Commissioner
Econ Sec
File 2
Float

noted Raf 4/12

2.7

CONFIDENTIAL

4313
HEADQUARTERS
4 DEC 1944
A. C. C.

Declassified E.O. 12356 Section 3.3/NND No. 785019

CONFIDENTIAL

S-69053-S0600
DEC 011912A

C/2776
DEC 041600A
ROUTINE

SHAEF MAIN SIGNED EISENHOWER CITE SHGES
AFHQ INFO AGWAR FOR COMBINED CHIEFS OF STAFF

CONFIDENTIAL.

Reference CCS cable to AFHQ WX-67618 dated 24 November 1944 and CAL 931.

1. Power equipment for Central ITALY is subject.

2. Opinion here is that alternative to the War Department providing trained personnel in the UNITED STATES, the crew could be recruited from either the Mediterranean and European Theatres or both. The selected crew would be trained on similar floating power plants to be used in the European Theatre.

3. This would enable work and delivery of the floating plant to proceed without delays arising from the selection and training of the crews in the UNITED STATES and a considerable saving in time in putting the plant to work in ITALY would be effected, if the above plan could be followed.

Col Lapper

That does not agree with our views and request

Raf 4/12

DIST
INFO-ACTION: P.Works 2
INFO: Chief Commissioner
Econ Sec
File 2
Float

CONFIDENTIAL

DEC 1944 4312

Declassified E.O. 12356 Section 3.3/NND No. 785019

BEST COPY POSSIBLE

Declassified E.O. 12356 Section 3.3/NND No. 785019

S-E-C-R-E-T

Te. 489081

HEADQUARTERS ALLIED COMMISSION
A.P.O. 394
Public Works and Utilities Sub-Commission

LWL/ac

Reference : 203/ /PWU
Subject : Emergency Electrical Equipment

2 Dec. 44

To : D.W. - A.A.I.

1) - Confirming conversation relating to emergncy electrical equipment owned by the Central Electricity Board (England).

2) - Arrangements have been made whereby this equipment which comprises transformers, and complete sub-station equipment for voltages up to 66 KV, can now be purchased from the Central Electricity Board and W.D. have been notified of this availability.

3) - This equipment was specially designed to meet an emergency situation, many of which it was thought would arise, and as an A.R.P. measure trained crews were available in each of the Boards Areas so that a completely new sub-station could be taken from the nearest store and put into operation within 48 hours.

4) - There are thirteen such stores of equipment distributed throughout England and Scotland and as only minor damage was caused to Electrical Plants in Britian there is now available a considerable quantity of electrical sub-station equipment.

5) - It is suggested that this equipment will be most suitable to you for forward area emergency supplies but it is recommended that your E & M Officer visit the C.E.B. at an early date in order that he may become fully aquainted with the special equipment and see a demonstration of the putting into operation of one of these plants.

6) - As the C.E.B. will be anxious to give you every possible assistance it may be helpful for your officer to carry a letter of introduction from me to Sir Johnstone Wright the manager of the C.E.B.

W.M.LAPPER 431
Lt-Colonel
Chief Elec.Div.

cc : C.E. - A.F.H.Q.

Visited Dec 6/44

Declassified E.O. 12356 Section 3.3/NND No. 785019

24

Tel.489081
Ext.320

LAJ/ce

Lt Col Lappin
LAJ

Headquarters Allied Commission
Inter Office Memo.

Reference: 203/PWU. 27 Nov.44.

Subject : Electric Power and Generating Equipment from Civilian Sources.

To : Economic Section, (Att: Mr. Cleveland)

From : P.W. & U. Sub-Commission.

1. Ref. your Memorandum of 20th November 1944 on above subject.

2. Your understanding as outlined under paragraphs 1 and 2 is correct. As to the necessary steps to be taken to obtain the 20,000 KW., I wish to comment as follows : -

(a) The F.E.A. has had a representative at the meetings of the C.C.A.C. and is fully aware of the allocations made and the fact that 20,000 KW. must be secured through a civil agency, which can only be the F.E.A. under present circumstances.

(b) As reported from Washington through AFHQ., the diversion of the 5,000 KW. has been tentatively agreed to. This equipment was procured by F.E.A. as Land-Lease for the Russians and F.E.A. can, and should, therefore, make definite arrangements for procuring this equipment for us.

(c) 250 KW. Wright Aeronautical Company Unit can be purchased from this Company, whose headquarter is at Patterson, N.J. F.E.A. should make a contract with this Company for this equipment.

(d) As to the remaining 14,750 KW., F.E.A. should place an order for us in co-operation with the War Production Board for such units as may be available within a range of from 300 to 1,000 KW. capacity per unit.

(e) All units must operate at 50 cycles and must be complete in every respect. The War Production Board is fully aware of

4310

Declassified E.O. 12356 Section 3.3/NND No. 785019

our requirements and allowable variations.

3. In connection with the procurement of this equipment for us definite arrangements should be made, whereby not only this equipment, but also future equipment for civil purposes may be procured through F.E.A. and a definite procedure should be established. It is extremely important, that F.E.A. arrange through the highest possible Authority to obtain a good priority for plant or equipment that is deemed to be required by us for essential civil needs, otherwise it will be 1946 before such plant or equipment could be made available for us.

L.A. JENNY,
Lt-Colonel, C.E.,
Director.

Declassified E.O. 12356 Section 3.3/NND No. 785019

CONFIDENTIAL

ALLIED FORCE HEADQUARTERS
G-5 Section
~~APO 512~~

RECEIVED
P.W. & U. S/C A.C.
27 NOV 1944 203

Ref. E-1

25 November 1944

SUBJECT: Power Equipment for Central Italy

TO : Headquarters, Allied Commission, APO 394

1. Reference our letter E-1 of 12 November and attached signal CAL 931.

2. Attached for your recommendation is CAL 983. It is requested that your comments on this and CAL 931 be furnished this headquarters urgently.

For the Assistant Chief of Staff, G-5:

J. E. BUTTERWORTH
Colonel, G.S.C.
Chief, Economics & Supply Division

Incl: CAL 983

2 NOV 1944 A. C.

Noted draft.
Mailed 28/Nov 1944
see letter for Econ. Sec. Sign.

see folio 18

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Declassified E.O. 12356 Section 3.3/NND No. 785019

3157

CONFIDENTIAL

ALLIED FORCE HEADQUARTERS
G-5 Section
APO 512

15 NOV Recd

PW + W 16
5/V

Ref. E-1

12 November 1944

SUBJECT: Power Equipment for Central Italy

TO : Headquarters, Allied Commission, APO 394
(Attn: Economic Section)

1. Reference CAL 931 (copy attached). May we have your comments on the questions raised in paragraphs 6 and 7.

2. Based on your recommendations, AFHQ will take the necessary action in advising the Combined Chiefs of Staff.

For the Assistant Chief of Staff, G-5:

18 refers.

J. E. BUTTERWORTH
Colonel, G.S.C.
Chief, Economics & Supply Division

Incl: CAL 931

14 NOV 1944
G-
A.

Lt Col Rapper
Pls discuss with me.
W.J. 15/11

Folio 30 refers.

4307

CONFIDENTIAL

Declassified E.O. 12356 Section 3.3/NND No. 785019

Il Ministro
dei Lavori Pubblici 203

File Lavori Varie

-7 DIC 1944 20

N-1099

LT. COL. L. A. J E N N Y
Director, Public Works and Utilities
Sub-Commission A.C.C.

SUBJECT: Payment for Electrical Plant.

In view of the very serious shortage of electric power plants in Italy, and the need for importing such plants so as to serve military as well as highly essential civilian needs, the Ministry of Public Works hereby has stated declares that, if such plants can be imported without delay, the Italian Government will assume the responsibility for:

a) The payment of rental for these plants during military operations, as well as the cost of operation, and,

b) The ultimate acquisition of these plants after they are no longer needed by the Allied Armed Forces.

The Italian Government asks that the payment for the ultimate acquisition of such plants be arranged on a long term basis.

T H E M I N I S T E R

Signed dell'Amore 4306

v.

Declassified E.O. 12356 Section 3.3/NND No. 785019

Roma,

AL LT. COL. L. A. J E N N Y
Direttore della Sottocommissione
Lavori Pubblici e Servizi Pubblici dell' A.C.C. R O M A

OGGETTO: Pagamento di Impianti elettrici.

In vista della mancanza molto grave di impianti elettrici in Italia e della necessità di importare tali impianti in modo da poter sopperire tanto alle esigenze militari quanto a quelle civili altamente essenziali, il Ministero dei Lavori Pubblici dichiara con la presente che, se tali impianti possono essere immediatamente importati, il Governo Italiano assumerà la responsabilità di:

a) pagamento del noleggio di tali impianti durante le operazioni militari, come pure pagamento dell'importo del costo dell'esercizio, e

b) acquistare definitivamente questi impianti quando non saranno più utili alle Forze Armate Alleate.

Il Governo Italiano chiede che il pagamento per l'acquisto definitivo di tali impianti sia a lunga scadenza.

IL MINISTRO
f. Mancini

4305

V.

Declassified E.O. 12356 Section 3.3/NND No. 785019

SECRET

Tel.489081
Ext.317.

WML/oe

HEADQUARTERS ALLIED COMMISSION
APO 394
ECONOMIC SECTION.

Date ?

203/WU.

SUBJECT: POWER EQUIPMENT for CENTRAL ITALY. 23 Nov 44

TO : A.F.H.Q. G-5 Section.
(att. E and S. Division)

16

1. Ref. letter E-1 of 12th Nov.44 and letter CAL.931 attached thereto.

2. It is agreed that the Floating Power unit "Impedance" (Unit C) 25.000 K.W. capacity will be suitable for use in Italy, after completion and adjustments as outlined in Memo left by Lt.Col. W.M. Lapper in Washington, copy of which is attached.

3. With regard to the training of crews it is suggested that a suitable type of man may be obtained from the Power Companies. It is desirable that they should remain as civilians and be on loan from their employers for a period not exceeding six months.

4. Twelve men should be sufficient as key trained personnel and if they are obtained from the Power Companies four to six weeks should be quite long enough for each man to become acquainted with his duties.

5. Immediately on arrival in Italy the key crew will be supplemented with Italian engineers who will gradually take over the complete operation so that the U.S. crew can return without delay.

6. With reference to the request made by the A.C. representative for two competent erector operators to come to Italy with the first of the portable steam units, we concur that this arrangement is desirable and first class men should be sent in order to train the Italian Engineers in the erection and

Declassified E.O. 12356 Section 3.3/NND No. 785019

operation of this special steam plant. Knowledge of Italian is not essential.

For The Chief Commissioner.

A.G.ANTOLINI,
Acting Head
Economic Section.

c.c. P.W.& U. Sub-Commission.

4305

Declassified E.O. 12356 Section 3.3/NND No. 785019

16

Letter 12 Nov. E1
from G-5 AFHQ.

Loaned to Economic Sec

Declassified E.O. 12356 Section 3.3/NND No. 785019

CONFIDENTIAL

ALLIED CONTROL COMMISSION

INCOMING MESSAGE

Rcd 18 NOV 203 CCS

Lon Sec 15

C/1094

TO: COMMANDING GENERAL, ROME AREA COMMAND PASS TO AC INFO AFHQ FOR FHGEC, UK BASE SECTION FOR BCS, COMMUNICATION ZONE SHAEF FOR SHGE SIGNAL MESSAGE CENTER No: 71/16

FROM: CCS CITE CCAC CLASSIFICATION:

REFERENCE No: WAFX 63171 JEAR 5133 COM4 PRECEDENCE: ROUTINE

DATE AND TIME OF ORIGIN: NOV 152117 OFFICE OF ORIGIN:

ACTION

CONFIDENTIAL.

Supreme HQ Allied Expeditionary Forces Main Echelon VERSAILLES FRANCE electric power equipment. Of the 60000 Kilowatts requisitioned, responsibility for 20000 was assigned to civilian agencies by CCAC. Will inform you at earliest date on arrangements for payment and actual procuring procedures now under consultation. Refer CAL 730 and Com 2 2nd paragraph.

Lt Col Chapter
I had asked for information
on this while in Washington
as no procedure was set up
any priority assigned Chief 19/11 1/16 hr

HEADQUARTERS 17 NOV 1944 A. C. C.

DIST

ACTION ECON SEC (3)
INFO CHIEF COMMISSIONER
FILE (2)
FLOAT

4301

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Lt Col Rhodes
~ Thompson
Please note & file
LAJ/oe 10/11
LAS 7/11

MEMORANDUM

~~253~~/203/PWU.

6 Nov. 1944

SUBJECT: Report on Trip to Washington.

TO : Vice-President, Economic Section A.C.

FROM : P.W. & U. Sub-Commission.

1. There is attached hereto a short report on the conclusions reached in connection with my mission to Washington.

2. I wish particularly to call attention to the portion dealing with the fact that the Foreign Economic Administration thus far has no established priority for having things manufactured in the United States and that something should be done promptly to establish such a priority, as otherwise all future requests which, no doubt, will be primarily on civil requirements would be seriously delayed.

3. There is also attached a separate report on the question of automobile tires which I have discussed with the Chairman of the War Production Board in Washington. It is believed that we may be able to obtain relief in this connection if the recommendations made to me are carried out.

4. As Commodore Stone has exhibited considerable interest in my mission to Washington, I believe these reports should be called to his attention at an early date.

L.A. JENNY,
Lt-Colonel, C.E.,
Director.

Encl.

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LAJ/ce

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REPORT ON TRIP TO WASHINGTON

for the purpose of

(a) obtaining electric power generating equipment

(b) looking into status of our highway equipment requisition.

Members of the mission were Lt.Col. L.A. JENNY, Director of the Public Works and Utilities Sub-Commission, and Lt.Col. W.M. LAPPER, Chief of the Electrical Division of this Sub-Commission.

We left Naples on 25th of September 1944 and arrived in Washington at 0200 hours on Sept. 29th. I returned to Rome 1st November 1944 in the evening.

We made contact with all of the many interested Divisions and Committees. The principal Committee involved was the Combined Civil Affairs Committee, known as the C.C.A.C. On this Committee are representatives of the International Division, Chief of Engineers office, British and Canadian representatives, as well as representatives of the State Department and of the Foreign Economic Administration. After a review by this Committee all matters are then forwarded to Sub-Committees of the various members of the Committee for review and discussion with their Headquarters. Many of these questions require confirmation of action by Ottawa and London. This was the case when endeavouring to determine which country could or should produce the articles required. The process is rather involved and numerous other Committees and Agencies have had to be contacted. I was advised that, by being on the ground and pushing them as hard as we did, we accomplished in two weeks what would normally take three months to do. This clearly demonstrates the wisdom of sending experts to Washington whenever speed is desired.

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Electrical Generation Equipment.

Our requisition called for 60,000 Kw. of electrical generating equipment. We had shown in the justification for

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this equipment that, among other things, we desired 20,000 KW. more electricity to be brought into Rome. In making a decision the C.C.A.C. was guided first by the speed with which equipment could be made available to be of use for military purposes in this theater and, secondly, by the fact that we had indicated that 20,000 additional KW. should go to Rome. In view of the fact that equipment totalling 40,000 KW. could be made readily available and which might be of use to the Military, and the further fact that 20,000 KW. were to be used for Rome, the Committee decided to allocate 40,000 KW. as a Military necessity and 20,000 KW. as a civil necessity.

We had obtained from the War Production Board, where we had the most excellent co-operation, information as to the availability of equipment now in the United States of coming off the production lines. Based upon this information, we prepared a statement as to what we desired. Our request for readily available equipment amounting to 40,000 KW. was approved, consisting of the following :

(a) 1 Floating Power Plant, Unit "C", now nearing completion at Pittsburg, having a capacity of 25,000 KW. at 50 cycles.

(b) Units built for the Chinese Government and now in storage in a warehouse at Troy, N.Y., packed in small packages for shipment over the Burma Road, consisting of :

1 -	2000 KW.	unit,
1 -	3000 "	" ,
1 -	4000 "	" ,
1 -	6000 "	" ,
Total :	15000 KW.	

In connection with the floating power units it should be stated that 4 such floating power plants were manufactured. Unit "D" was on the way to France and Unit "B" was ready to go. In view of the fact that France already was given one unit, we made a special request to have Unit "B" sent to Italy, so as to give us immediate relief. A cable

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was sent to the French Theater and a reply was received that both of these units were needed to go to two different ports to supply power for port operating equipment. As a result of this reply our request was denied and Unit "C", now at Pittsburgh, was assigned to us. However, Lt.Col. Lapper, while in England, will try to contact Lt.Col. Cisler of the European Theater in an effort to try to persuade him to let us have Unit "B", if at all possible.

At a conference in New York at the International Division of the Westinghouse Electric Company, manufacturers of this steam power equipment, we learned that numerous parts of this equipment had been taken away and that certain essential parts, such as circulating equipment, were not available. It was agreed that the Westinghouse would assemble these units for us into three or four sections easily transportable, while the balance of the equipment was being procured, thus saving time for us. All equipment will be accompanied by the necessary tools for erection and maintenance.

It was estimated that the Chinese units could be delivered to us in Italy by about the 15 January and that the Floating Power Station could arrive here about 1st March 1945.

The request for the additional 20,000 KW. was referred to the Foreign Economic Administration to procure. This matter was discussed with Mr. HUNT of the F.E.A. and also with Mr. BOSCH, Head of the Utility Division of the WPB.

I was informed that requests made for civil purposes had no priority, whereas Military requirements, including the 40,000 KW. mentioned above, have an AA-1 priority. I was advised at the War Production Board that there would be considerable delay in obtaining any equipment being a "Civil Requirement". The opinion expressed was that, if materials were available, they would be allocated, if a manufacturer had surplus capacity, he would manufacture it, provided that it did not hurt any other war production. In answer to my question as to whether this meant that this equipment might not reach us before 1946, I was advised that that might be so.

This raises an extremely important question which we must bear in mind in connection with all requisitions for the rehabilitation of Italy. Most of such requisitions will, of necessity, have to be classified as being "Civil Requirements".

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Therefore, much delay will be experienced in procuring any such equipment. It is of extreme importance that steps be taken to assure that when urgent requests for civil requirements are made and the F.E.A. is requested to furnish this equipment, that it take steps to obtain a higher priority, possibly an A-1 priority or better, otherwise such equipment would be of little value in the early rehabilitation of Italy, as it would not arrive in sufficient time to be of any use in our immediate task.

Highway Construction Equipment.

Our requisition of highway construction equipment, which was prepared last spring, had been approved by A.F.H.Q. early in June and sent to Washington. Since that time it had been going through the processing stage and had not yet reached final decision when we arrived in Washington. This matter was pushed and telegrams were sent to London asking for an early decision as to whether or not Britain could furnish any of that equipment. A reply was received from London that it could not furnish any part of that equipment and, therefore, the United States will have to furnish this. A decision was finally reached that this be made a Military requirement and we were assured that early instructionswould be issued permitting us to draw from Army stocks in this theater, which stocks would then be replaced with new equipment coming off the production lines. No one seemed willing to estimate approximately when this equipment, or any part of it, would be made available. The fact, however, that it has been accepted as a Military requirement, should help us in obtaining reasonably early delivery of some of this equipment. We are counting very much upon using some of this equipment in connection with our electrical rehabilitation program.

I was advised that it might have taken several months yet before a decision would have been reached, had we not pushed this in Washington and urged it as a Military necessity. By this time it might then have been called a "civil requirement" and might not have been ready for delivery before 1946.

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L.A. JENNY,
Lt-Colonel, C.E.,
Director.

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Automobile Tires.

Although our Travel-Orders to the United States indicated that we were not to discuss transportation and shipping problems while in Washington, I took it upon myself, nevertheless, to discuss with officials of the War Production Board the very vital question of obtaining automobile tires which, in a broad sense, could not be considered as discussing overall transportation problems.

I first discussed this problem with Mr. J.A. KRUG, Chairman of the War Production Board, who called in Mr. J.D. CLARK, Director, Rubber Division, W.P.B. I then discussed this problem in detail with Mr. Clark.

I was advised that the bottle-neck in the tire production at home was in the capacity of our plants to produce tires. I was informed that there were ample stocks of raw materials needed to manufacture tires, and that if it were possible for us to open up one of the previously well equipped tire manufacturing plants in Northern Italy, we would be assured of an ample supply of raw materials for manufacturing tires in this country.

I was also advised that experts from the War Production Board were at the present time in France assisting in the rehabilitation of two plants (I believe they are the Renault and Michelin plants) which were only lightly damaged and which could manufacture considerable quantities of tires. I was also advised that there was one good plant in Northern Italy and that the War Production Board would send an expert to Italy to assist in the rehabilitation of such tire manufacturing plant in Northern Italy, as soon as they were advised that we could undertake this task. The suggestion was made that we contact proper Authorities in the French theater with a view of obtaining tires for the Italian theater from the French pending the re-establishment of the Italian plant. This was considered particularly interesting to us because of the fact that the French plant would also manufacture some of the small tires needed in Italy and which we are now unable to obtain.

I consider the above information of sufficient importance to thus specially report upon my finding, in the hope that something may be done to assist us in this very critical problem.

L.A. JEANS,
Lt-Colonel, C.E.
Director.

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24 October 1944

HEADQUARTER
ALLIED CONTROL COMMISSION
PUBLIC WORKS AND UTILITIES SUB-COMMISSION
A.P.O. 394

60,000 K.W. Electric Power Plant

Decision has been reached that the Army furnish 40,000 KW of our requisition for 60,000 KW and that the Foreign Economic Administration provide the balance, or 20,000 KW.

Army Procurement

This will be made up as follows:

(a) Floating Power Plant, Unit "C", capacity 25,000 KW., now at Pittsburgh to be equipped as provided in the memorandum prepared by Lt. Col. Lapper, copies of which were furnished to the International Division of CCAC, Pentagon Bldg. and to the War Production Board, Utility Division.

(b) Chinese steam power units:

	1 - 2000 KW
	1 - 3000 Kw
	1 - 4000 KW
	1 - 6000 Kw
Total	15000 Kw

To be fully equipped as provided in the memorandum prepared by Lt. Col. Lapper and more fully detailed in a statement prepared by the Westinghouse Electric International co., dated October 11, 1944, entitled "Summary of Discussion Held October 9, 1944."

In a discussion with Maj. Whitfield, acting head of the International Division of CCAC, on Monday 23 October 1944, he stated that his Division had all of the data necessary to proceed and that, after clearing with one more agency, definite orders would be issued to obtain the above equipment for us. I was assured that there was nothing further needed from us and that early action would be taken automatically and promptly. It is understood that we will receive an AA-1 priority on this.

F.E.A. Procurement

Our original request, dated 5 October 1944, called for the 20,000 KW to be made up as follows:

Capt. Preedy
Pls place with
original record
of this requisition. 429½
Raf 8/11

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1. 10 - 500 KW Steam power units, part of a large order by the Russian Government - - - - - - - - - 5,000 KW

2. 8 - 313 KW units - 2504 KW
20 - 400 KW " - 8000 "
10 - 418 KW " - 4180 " - - - - - - - - - - - 14,684 KW

This is part of an 105,000 KW order for the European Theater.

3. 1 Wright Cyclone 9 Portable Generator set as manufactured by the Wright Aeronautical Co. at Paterson, N.J. - - - - - - - - - - - - - - - - - 250 KW

Total 19,934 KW

Arrangements will have to be made promptly by F.E.A. to order this equipment and to obtain a priority of AA-1 or better for this, otherwise there will be too much delay. Someone will have to be appointed to follow through on this until delivery is made.

L. A. Jenny, Lt. Col. C.E.
Director

Copies to:

International Div. CCAC
Foreign Economic Administration
War Production Board

Declassified E.O. 12356 Section 3.3/NND No. 785019

24 October 1944

HEADQUARTER
ALLIED CONTROL COMMISSION
PUBLIC WORKS AND UTILITIES SUB-COMMISSION
A.P.O. 394

Capt. Preedy
Please this in the file
Elec. Power Rep.
6/11
A.P.

60,000 K.W. Electric Power Plant

Decision has been reached that the Army furnish 40,000 KW of our requisition for 60,000 KW and that the Foreign Economic Administration provide the balance, or 20,000 KW.

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Our original request, dated 5 October 1944, called for the 20,000 KW to be made up as follows:

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1. 10 - 500 KW Steam power units, part of a large order by the Russian Government - - - - - - - - - 5,000 KW

2. 8 - 313 KW units - 2504 KW
20 - 400 KW " - 8000 "
10 - 416 KW " - 4180 " - - - - - - - - - - - 14,684 KW

This is part of an 105,000 KW order for the European Theater.

3. 1 Wright Cyclone 9 Portable Generator set as manufactured by the Wright Aeronautical Co. at Paterson, N.J. - - - - - - - - - - - - - - - - - 250 KW

Total 19,934 KW

Arrangements will have to be made promptly by F.E.A. to order this equipment and to obtain a priority of AA-1 or better for this, otherwise there will be too much delay. Someone will have to be appointed to follow through on this until delivery is made.

L. A. Jenny, Lt. Col. C.E.
Director

Copies to:

International Div. CCAC
Foreign Economic Administration
War Production Board

Declassified E.O. 12356 Section 3.3/NND No. 785019

October 3, 1944

TYPE OF
ELECTRICAL GENERATING PLANT
DESIRED FOR ITALY

	KW at 50 Cycles
1. 1 Floating Power Plant, Unit "D"	25,000
2. (Chinese Equipment)	
1 = 2000 KW, Steam 1 = 3000 " " 1 = 4000 " " 1 = 6000 " "	15,000
3. (Russian Equipment)	
10 = 500 KW, Steam	5,000
4. (European Theater Equipment = 105,000 KW Lot)	
8 = 313 KW - 2504 20 = 400 KW - 8000 10 = 418 KW - 4180	14,684
5. 1 Wright Cyclone 9 Portable Generator Set	250
TOTAL	59,934

The above plant now has a military priority of AA-1. We should receive the same or better priority in view of the urgency for this equipment.

It is understood that some diesel driven power plant of 400 to 2500 KW capacity is available at Panama under Engineer control which might be substituted for some of the above plant if any of this is not procurable.

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HEADQUARTERS
ALLIED CONTROL COMMISSION
Public Works and Utilities Sub-Commission
APO 394

File
Part of justification for new power plant from U.S. 6/11

2 Sept. 1944

Use of Italian Electrical Engineers in the Electrical rehabilitation work.

1. We make the fullest possible use of Italian electrical engineers, both in the Ministry of Public Works and the Electrical Companies. These companies have good staffs and conferences are held with the Chief Engineers of these companies weekly. Often they bring some of their key men with them. We discuss our mutual problems and they carry out such detail surveys etc. as we direct. They also cooperate fully in clearing the sites so as to enable us to make inventories and they assist us in preparing a program of feasible rehabilitation.

2. In addition to that this Sub-Commission has engaged ten Italian Electrical Engineers who are all first class men and who are thoroughly familiar with Italian power plants and transmission systems.

L.A. JENNY,
Lt-Colonel, C.E.,
Director.

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Copy for Col Jenny

HEADQUARTERS
ALLIED CONTROL COMMISSION
Public Works and Utilities Sub-Commission
APO 394

2 Sept. 1944

Subject: Electrical Power for Central Italy.

To : Economic & Supply Division
G - 5, AF.H.Q.
Attention Col. J.E. Butterworth.

1. Reference your letter E-1, 26 Aug.1944, our full justification for the importation of Electrical Power Plants is attached hereto.

2. Reference Para.2. of this letter the rehabilitation of the small isolated plants is still proceeding and the investigations so far completed are shown on the attached statement, together with the answer to your question concerning the use being made of Italian Electrical Engineers.

3. Also is attached a letter from Brig General O'Dwyer to the CE,A.A.I..

4. Ten copies of the justification together with a requisitation for electric power plants are being sent to you under separate cover.

L.A. JENNY,
Lt-Colonel, C.E.,
Director.

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HEADQUARTERS
ALLIED CONTROL COMMISSION
Economic Section
APO 394

2 Sept. 1944

SUBJECT: Requisition for Electrical Plant

TO : Chief Engineer, A.F.H.Q.

1. At a conference held in your office on 18 August 1944, you had requested our engineers to prepare further substantiating data regarding the need for the importation of electrical plant.

2. It has taken some time to prepare this data and it is believed that the information submitted herewith fully proves our case and the need for urgent action.

3. It should be clearly understood that the industrial plants, which our Industrial Sub-Commission has listed as being urgent, only represent the most important industries on which studies have been made and does not include the large number of small plants which are daily being rehabilitated all over liberated Italy, and on which we have as yet no definite data; nor does this list include plants which we may find necessary to rehabilitate within the next 6 months. Therefore, the actual requirements may be increased many times, within a relatively short period, above those indicated in that list.

4. It is understood that Commander J.A. Krug, now Director of the War Production Board, expressed the opinion while here that we should have a good chance of obtaining a fair portion of the equipment now destined for France, if we act promptly. We consider this whole matter so urgent that we request authority to send our two officers, most concerned with this problem, to Washington so as to obtain first hand information as to the availability of plant and with authority to accept substitutes, if necessary.

5. May I have a prompt reply from you on this subject.

4287

WILLIAM O'DWYER
Brigadier General U S A
Economic Section.

10

LIST OF SMALL ISOLATED HYDRO ELECTRIC GENERATING STATIONS SITUATED IN CENTRAL ITALY

1. The attached Statement shows the particulars of the small isolated Hydro Electric plants which are located in districts generally remote from the Grid System.

2. These plants are of low head design and usually built to suit the particular conditions in which they are situated.

3. Investigation is still being made into the condition of these plants and already in the U.N.R.R.A. area some are being moved to assist in the better distribution of energy.

4. The following table summarises the position regarding these plants which are listed on the attached sheets.

Station	Number of Station	Original output capacity KW	Present output capacity KW
Total stations listed	45	5,500	
Destroyed	7	910	
In operation	7	790	385

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4. The following table summarises the position regarding these plants which are listed on the attached sheets.

Station	Number of Station	Original output capacity KW	Present output capacity KW
Total stations listed	45	5,500	
Destroyed	7	910	
In operation	7	790	385
Under Repair	5	680	
Under investigation	26	3.120 4286	

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Plant	River	Op. Company	Head mtr.	HP.	Inst. Machinery KVA.
LIVIGNI (Pistoia)	Serchio	Forze Idr. App. Centrale	21,40	250	2 x 150
S. MARTINO (Grosseto)	Ombrone	Maremmana	3.20	200	1 x 200
PRATOVECCHIO (Arezzo)	Arno	Valdarno	20,40	160	1 x 90 1 x 60
LA MUSSA (Arezzo)	do	do	4.30	297	1 x 150 1 x 75
ROVICO (Firenze)	do	do	8.--	198	1 x 100 1 x 90
S. GIUSEPPE (Siena)	do	do	100.--	147	1 x 90 1 x 125
CASALE (Grosseto)	Ombrone	do	94.90	101	1 x 100 1 x 125
CORCHIANO (Viterbo)	Tevere	Volsinia di Elettricità	18.--	156	1 x 90
LE FORCHE (Viterbo)	do	do	24.50	131	2 x 100
LE MOLLETTE (Viterbo)	do	do	32.90	193	2 x 190
TERRANO (Viterbo)	Anone	do	23,50	108	2 x 75
NINFA (Roma)	Paludi Pontine	Soc. Laziale di Elettricità	7.--	250	2 x 150
CANDALIA (Lucca)	Serchio	U.N.E.S.	94.--	175	2 x 82
FOLLE (Lucca)	do	do	75.50	120	1 x 82
S. GERONZO IN CAGLI (Pesaro)	Metauro	U.N.E.S.	19.50	113	1 x 110
ISOLA FOSSARA (Pesaro)	Esino	do	48.20	129	1 x 125 1 x 75
SOTSCIANO (Ancona)	do	do	5.40	160	1 x 90 2 x 40

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Op. Company	Head mtr.	HP.	Inst.Machinery KVA.	Remarks
Forze Idr. App.Centrale	21,40	250	2 x 150	Not yet in Allied Territory
Maremmana	3.20	200	1 x 200	
Valdarno	10,40	160	(1 x 90 (1 x 60	
do	4.30	237	(1 x 150 (1 x 75	
do	8.--	138	(1 x 100 (1 x 30	
do	100.--	147	(1 x 90 (1 x 125	
do	94.90	101	(1 x 100 (1 x 125	
Volsinia di Elettricità	18.--	156	1 x 90	In operation 30 KW.
do	24.50	131	2 x 100	do do 40 KW.
do	32.90	193	2 x 130	(Canal damaged through bombing - (Repairs under way - foreseen start operat- (ion end September.
do	23.50	108	2 x 75	In operation 40 KW.
Soc.Laziale di Elettricità	7.--	250	2 x 150	(Damaged by bombs - building destroyed - (Machinery slightly damaged - repairs under (way - time foreseen three months.
U.N.E.S.	94.--	175	2 x 82	Not yet in Allied Territory
do	75.50	120	1 x 82	do do
U.N.E.S.	19.50	119	1 x 110	
do	48.20	129	(1 x 125 (1 x 75	
do	5.40	160	(1 x 90 (2 x 40	

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Plant	River	Op. Company	Head mtr.	HP.	Inst. Machinery KVA.
MOLINO DI SOTTO (Ancona)	Esino	U.N.E.S.	5,85	220	2 x 166
MOLINO AGUGLIANO (Ancona)	do	do	5,50	218	1 x 166
CESSAPALOMBO (Macerata)	Chienti	do	8,50	162	2 x 52
MANDOLA (Ascoli Piceno)	Tenna	do	8,44	112	1 x 147
AMBRO (Ascoli Piceno)	do	do	26,--	225	2 x 175
MONTE S.MARTINO (Macerata)	do	do	16,40	175	2 x 175
CRETAROLE (Ascoli Piceno)	do Tronto	do	12,--	243	1 x 290
CENTOBUCHI (Ascoli Piceno)	Tronto	do	5,--	200	1 x 169
PIEDIVALLE (Perugia)	Tevere	do	25,60	137	2 x 80
CAPUCCINI (Perugia)	do	do	253,--	113	(1 x 45 (1 x 90
RIPOLI (Perugia)	do	do	14,90	149	2 x 90
SIGILLO (Aquila)	do	do	11,5	245,--	1 x 200
CELLE (Aquila)	Aterno Pescara	do	125,--	160	1 x 100
TRIVENTO (Chieti)	Trigno	do	11,35	165	1 x 90
CELENZA (Chieti)	do	do	9,22	108	1 x 125
ASCHE (Grosseto)	Ombrone	MONTE AMIATA Romana	75,--	220	(1 x 250 (2 x 94
ACQUADALTO (Grosseto)	do	do Romana	17,--	100	1 x 75
BAIZETTE (Ancona)	Esino	Cartiere Pietro Miliani	69,--	260	3 x 100

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Op. Company	Head mtr.	HP.	Inst. Machinery KVA.	Remarks
U.N.E.S.	5,85	220	2 x 166	
do	5,50	218	1 x 166	
do	8,50	162	2 x 52	Damaged - Repairs under way - Time foreseen 20 days -
do	8,44	112	1 x 147	Out operation - Machinery were under repair - Start operation foreseen Oct.41.
do	26,--	225	2 x 175	In operation-Output 50 KW.at present
do	16,40	175	2 x 175	In operation-Present output 50 KW.
do	12,--	243	1 x 290	destroyed
do	5,--	200	1 x 169	Out operation from a long time
do	25,60	137	2 x 80	
do	259,--	113	(1 x 45 (1 x 90	
do	44,90	149	2 x 90	
do	11,5	245,--	1 x 200	Destroyed
do	125,--	160	1 x 100	Nearly destroyed
do	11,35	165	1 x 90	Destroyed
do	9,22	108	1 x 125	do
MONTE AMIATA Romana	75,--	220	(1 x 250 (2 x 94	Destroyed
do Romana	17,--	100	1 x 75	In operation 50 KW.
Cartiere Pietro Miliani	69,--	260	3 x 100	

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Plant	River	OP. Company	Head mtr.	HP.	Inst. Machinery KVA.
JESI (Ancona)	Esino	Filatura Canconi di Seta	6,--	240	1 x 210
SAN SAVINO (Viterbo)	Marta	Soc. Angelo Brigo	13,--	172	9 x 150
TUSCANIA (Viterbo)	do	do.	3.6	100	1 x 90
MOLINO MONTESANTO (Perugia)	Tevere	Imp. El. Corradi e Pacifici	10,50	113	(1 x 11 0 (1 x 55
COLLE ROMANO (Frosinone)	Liri-Garigliano	Visocchi Orazio	20,--	159	2 x 95
CONCIO 1o S. (Macerata)	Potenza	Az. El. Mun. S. Severino	6,40	125	(1 x 70 (1 x 50
CONCIO 2° S. (Macerata)	do	do.	7.--	100	1 x 120
ROSSO DI TREIA (Macerata)	do.	Az. El. Mun. di Treia	4.--	148	1 x 45
POTENZA PICENA (Macerata)	do	Az. El. Mun. di Potenza Picena	--	150	1 x 150
MOLINO (Macerata)	do	Az. El. Mun. di Recanati	6,15	213	1 x 187

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	Op. Company	Head mtr.	HP.	Inst. Machinery KVA.	Remarks
	Filatura Cascami di Seta	6,--	240	1 x 210	In operation - Not connected -Frigo grid
	Soc. Angelo Frigo	13,--	272	3 x 150	25 Destroyed
	do.	3,6	100	1 x 90	
	Imp. El. Corradi e Pacifici	10,50	113	(1 x 110 (1 x 55	
gliano	Viscocchi Orazio	20,--	150	2 x 95	
	Az. El. Mun. S. Severino	6,40	125	(1 x 70 (1 x 50	
	do.	7,--	100	1 x 120	
	Az. El. Mun. di Treia	4,--	148	1 x 45	
	Az. El. Mun. di Potenza Picena	--	150	1 x 150	
	Az. El. Mun. di Recanati	6,15	213	1 x 187	

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Declassified E.O. 12356 Section 3.3/NND No. 785019

SUBJECT: Report of Public Works & Utilities Sub-Commission of ACC.

4. C-4 C-5 17/9/44. 1. The attached report of the Public Works & Utilities Sub-Commission of ACC, and the remarks of the Chief Engineer have been noted.

2. With certain exceptions, report is approved for forwarding to the CC/S for their consideration, not as a military requirement, but as a basis for future planning of civilian agencies responsible for rehabilitation.

3. The report can be strengthened if the following amendments are made:

a. Show good and sufficient reason why 20,000 additional kw are required for the use of the civil population of Rome, and why the same is not true of other cities of the area; or else omit this requirement.

b. Indicate that although by the end of the period under consideration military requirements should fall off, the need for power for repair and rehabilitation will more than offset.

c. Indicate generally what percentage of output generation capacity increase, in the calculations, is due to increased stream flow in winter months. This will fall off with summer deficiency of rainfall in the next period.

d. Include table covering the Carbide Industry production. This is very important vs supply and demand.

e. Think up a better reason for making rayon, than for ladies underwear. Believe inquiry will show rayon to be essential in the military effort.

f. Indicate whether or not local resources can be moved from source to manufacturing plant, and finished product from plant to points of distribution, using facilities available.

g. Show whether or not local skilled and unskilled labor, as required, is available.

h. Power for grinding wheat is required as much for imported wheat as for local wheat.

i. Give a general idea as to planning for Northern Italy if conditions are found to be similar to those in Central Italy. Bear in mind that it will be difficult to move any "temporary" installations once set up in Central Italy.

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j. Remark on inability to tie Southern and Central Italy together for exchange of power, due to damaged transmission system.

k. An area outline map should be annexed.

4. Much of the above can be covered in the remarks of this headquarters, as an annex. The letter to CC/S should be concise, in itself and indicate the problem, a brief discussion and the recommendations.

5. These requirements can be supported only in small part as military requirements. For example, the requirement most nearly justified as military is the requirement for power to grind flour but even this, considered in terms either of shipping or of money value, would not be justified if we assume that war will end in a month or two. In other words, the equipment would not pay for itself during the next two months of war and the following six months of military responsibility for civil supply. I am willing to support power for the grinding of flour and for other similar purposes that are partly military requirements with wording similar to what I have given above.

s/Carter B. Magruder
CARTER B. MAGRUDER,
BRIG. GENERAL, G.S.C.,
A. C. of S., G-4.

(a) - Additional 20.000 KW for Rome Civilians

The justification for this is that Rome is the most important City in Italy. Yet it is the only City in which we have not been able to give some degree of continuous but restricted supply of elec tricity for civilian users. At the present time the civilians obtain electricity only for 16 hours (that is night hours) every forth day. We see no possibility of improving this position durin g the next six months, in fact it may have to be reduced. It is not in the interest of public health and safety that such a condition of affairs should be allowed to continue.

(b) - Need for additional electricity for civil purposes if military demand falls off

If the military demand fell off at the end of the six month period this would indicate that the military had left Italy and in fact found suitab le factories already supplied with electricity in their new operational area. It seems to us that such a state of affairs is unlikely since the military are now depending on well established factories who are meeting their demands and will no doubt have to continue to do so. It is important to point out here that the military demand in Southern Italy has not diminished in the least since the military moved forward.

If it should happen that the military demands were decreased after termination of hostilities in Italy, the demands which would then be made for the

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If it should happen that the military demands were decreased after termination of hostilities in Italy, the demands which would then be made for the highly essential early rehabilitation of key industries would more than offset the reduction of military demands. In fact it is forseen that the demand for electricity would be far beyond the ability to produce it.

(c) - Percentage of generation capacity increase due to increased stream flow and reduction after rains cease

The anticipated increase in production is shown in Table "E", rising gradually from October to January, with a maximum increase of 30.000 KW. However, this will drop off completely during the period from February to April, after which only the normal supply will be available.

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(d) - In addition to the number of plants listed which it is intended to rehabilitate, the Carbide Plant at Terni should be mentioned.

Plant Condition :

Good. Following based on use of one furnace out of three.

Uses :

For production of acetylene which is urgently needed in dismantling damaged machinery, cutting and welding by the military and in the rehabilitation program. Considerable quantities can also be used by the fishing industry when hostilities cease for night seining which would assist on the problem of civilian food supply.

Necessary Raw Materials and Their Sources

(a) - Coke for production of burnt lime for the process and for the carbide furnace mixture. Source artificial gas plants.

(b) - Limestone available locally.

(c) - Imported. Large rectangular carbon electrodes for carbide furnaces.

(d) - Sheet steel for the fabrication of carbide drums. Plant for this work available at the carbide works.

(The plant could produce 3,000 tons of carbide per month. This will require 1,500 tons of coke per month. Gas coke from Gas Plants can be used and based on the ratio of about one ton of saleable coke to three tons of imported coal, experienced by the Rome City Gas Plant, would represent about 4,500 tons of imported coal per month from England.(This coal will be imported in any case for gas porduction).

(e) - S.A. Viscosa - Rayon manufacture

Rayon is used as a fabric in the manufacture of many kinds of clothing both for men and women and, in the absence of silk and wool, is considered of prime necessity in relieving demands made upon military establishments.

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(f) - Transport difficulties

No special transport difficulties are anticipated as the relatively few

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4273

(f) - Transport difficulties
No special transport difficulties are anticipated as the relatively few factories which are mentioned in the report are located in different centers of Italy, most of which are now, or will be served, by railroads. In addition it is anticipated that some of the railroads will have to be gradually electrified, thus further improving that situation.

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(g) - Skilled and un-skilled labour

No labour difficulties have been experienced thus far when new industries are opened up and none are anticipated. Quite the contrary, requests are being made to reopen more factories so as to give work to large masses of people who are now unemployed. The factories to be utilized are not new factories in new centers, but old factories in established centers.

(h) - Power for grinding wheat

While we have primarily dealt with the grinding of wheat produced in Italy it is fully realized the wheat is also imported and that, to that extent, our demands would have to be increased.

(i) - Plan for Northern Italy

The situation on electric power for Northern Italy will, without doubt, be a very serious matter. This is based on the assumption that the enemy will attempt to carry on as thorough a program of demolition as was done in Central Italy. Northern Italy contains 40% of the country's power producing equipment.

Information on a few important selected plants has been passed to the patriots operating in Northern Italy in an endeavor to save and protect them if possible. Just how much can be accomplished only time will tell.

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(n) - Power for grinding wheat

While we have primarily dealt with the grinding of wheat produced in Italy it is fully realized the wheat is also imported and that, to this extent, our demands would have to be increased.

(i) - Plans for Northern Italy

The situation on electric power for Northern Italy will, without doubt, be a very serious matter. This is based on the assumption that the enemy will attempt to carry on as thorough a program of demolition as was done in Central Italy. Northern Italy contains 60% of the country's power producing equipment.

Information on a few important selected plants has been passed to the patriots operating in Northern Italy in an endeavor to save and protect them if possible. Just how much can be accomplished only time will tell.

427R

The portable power plant units both large and small are certain to be of help. The purpose, in recommending portable units, was the fact that they could be moved when they have served their purposes in Central Italy. They will have helped provide the power necessary to rehabilitate enough of the damaged equipment so that they can be moved to more northern locations.

As fast as the transmission lines are repaired the portable units can be moved to new locations where they can perform the same function as before.

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The floating type plants can be located in important harbors on both coasts and used to energise areas around those ports until other types of generation can be repaired and put back into operation.

(j) - Tie of Southern Italy to Central Italy

There are many reasons why it it not possible to tie the Southern Italy Grid with the Central Italy Grid. These are :

(a) - The tie would have to be on the high voltage system and this is badly damaged and will take some months to reinstate.

(b) - There is no surplus energy available in Southern Italy unless the civilian supply is completely cut off. Very strict rationing control exists at the present time in Southern Italy.

(c) - The reservoir capacity in the south is being very carefully watched and the load must not be exceeded otherwise the reservoirs will not last over the dry season.

(d) - The load in the south has risen because industry has been developed in that area due to lack of electricity in Central Italy.

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Subject: Electric Power Supply - ITALY

J 319
11 CE Works
EIGHTH ARMY
CE 1506/82
4 July 44.

C.E., Main 8th Army.
H.Q., A.C.C. (Public Works Sec), A.P.O. 394

Herewith a copy of Electric Power Supply - ITALY, Part X, passed to you for your information.

Please ack. receipt.

5 LUG. 1944

AWP/rka

SEE OVER

11 CE Works.
EIGHTH ARMY.

Declassified E.O. 12356 Section 3.3/NND No. 785019

A00/051/PAPL

REPLY

Acknowledged with thanks receipt of Electric Power Supply Italy part X. This is a very excellent work and will be much useful to us.

Sd/-

Declassified E.O. 12356 Section 3.3/NND No. 785019

ADVANCE HEADQUARTERS
ALLIED CONTROL COMMISSION
Public Works and Utilities Sub-Commission
APO 394

WML/ce

ACC/051/PWU. 6 Jul 44.

Subject: Electric Power Supply - ITALY.

To : 11 CE Works 8th Army. attn. Maj. PAGE

Acknowledged with thanks receipt of Electric Power Supply - Italy, Part X.

This is a very excellent work and will be most useful to us.

W.M. LAPPER
Lieut-Colonel
Chief, Utilities Adm. Div.

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Copy of Eng

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ALLIED FORCE HEADQUARTERS
G-5 Section
APO 512

CEL/CHR/jm

24 September 1944

SUBJECT: Terms of Reference for Mission of Lt.Col. L.A. Jonny (U.S.) and Lt.Col. W.M. Lapper (Br.) in Accordance with Signals WX 30499 of 14 Sept. and LAC 709 of 24 Sept.

TO : All Concerned

1. In accordance with cable from CCS to General Wilson, No. WX 30499 of 14 September 1944, Lt. Cols. L. A. Jonny (U.S.) and W. M. Lapper (Br.) of the Public Works and Utilities Sub-Commission, A.C.C., will proceed to Washington on temporary duty for the purpose of presenting a requisition and supporting data with a view to obtaining approval for plant to be sent to Italy, as follows:

Requisition Ref MGS-216-Eng. This is a flexible requisition, asking for electric power units of certain types, according to availability, not to exceed 60,000 KW.

This requisition has been approved by AFHQ, under the current interpretation of the term "military requirements", with the following provision:

(a) As an urgent requirement for such portions as may be available for delivery, installation and effective utilization during the period of military responsibility.

(b) As a basis for future planning by such civilian agencies as will be charged with the responsibility for relief and rehabilitation in Italy after the military responsibility has been completed.

These officers are authorized by this H.Q. to accept whatever combination of such plants as may be available and fit into the Italian electrical rehabilitation scheme, up to the total KW asked for in the requisition.

2. These officers are also authorized to discuss Requisition No. MGS-180-Eng, which was approved by AFHQ on 15 June 44, and take all possible steps to expedite action thereon.

Capt Preedy
Please file this with our Elec. Reg. papers. This is the official copy which I used in Washington
6/11

4271

C. E. LEWIN-HARRIS
Colonel
Deputy Asst. Chief of Staff, G-5

Concurred: G-4

Declassified E.O. 12356 Section 3.3/NND No. 785019

Copy

WAR DEPARTMENT
Q. M. C. Form. No. 400
Revised Apr. 4, 1931

REQUISITION

Sheet No. 1

To: G-5, AFHQ. No. of Sheets: 26

Requisition No: ACC-ENG-27-45 Date: 4 September 1944 Period: SPECIAL

Ship to: Ports as indicated consigned to Public Works & Utilities Subcommission, ACC.

REQUISITIONED BY:

ROBERT A. MARTINO,
Lt. Colonel, S.R.,
Chief, Requisition Division.

APPROVED BY:

A. G. ANTOLINI,
Executive Director,
Economic Section, ACC.

Stock No.	Articles	Unit	On Hand and Due	Consumed	Required	Approved
None	1. POWER PLANT, floating, 30,000 KW, capable of operating at 50 cycles, outgoing voltage of 60 KV preferred (such as floating power plant constructed for the War Department in conjunction with the War Production Board, hulls were constructed by Bethlehem Shipbuilding Co., Bethlehem, Pa., equipment and machinery were installed by United Engineers & Constructors Co., Philadelphia, Pa.), complete in all details for operation and maintenance.	Ea			2	
	OR					
None	2. GENERATOR-TRANSFORMER SET, consisting of:					
	a) Generator, electric, portable, gasoline engine or diesel engine driven, skid mounted, 25 to 50 KW, standard voltage, 3-phase, 45 to 50 cycle.	Ea			4273	
	b) Transformer, oil immersed, distribution type, 3-phase, 45 to 50 cycle, self cooled, high voltage to be 9,000 volts, low voltage to match generators				30	

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WAR DEPARTMENT
Q. M. C. Form No. 401
Revised Apr. 6, 1931

REQUISITION
(Extra Sheet)

No. .....
Sheet No. 2

Stock No.	Articles	Unit	On Hand and Due	Consumed	Required	Approved
	c)Spare parts set and maintenance tool set for 6-month operating period, as recommended by manufacturer.	St			30	
None	3. GENERATOR-TRANSFORMER SET, consisting of:					
	a) Generator, electric, portable, gasoline engine or diesel engine driven, skid mounted, 100 to 200 KW, standard voltage, 3-phase, 45 to 50 cycle.	Ea			30	
	b) Transformer, oil immersed, distribution type, 3-phase, 45 to 50 cycle, self cooled, high voltage to be 9,000 volts, low voltage to match generators.	Ea			30	
	c) Spare parts set and maintenance tool set for 6-month operating period, as recommended by manufacturer.	St			30	
None	4. GENERATOR-TRANSFORMER SET,					
	a) Generator, electric, portable, gasoline engine or diesel engine driven, skid mounted, 300 to 400 KW, standard voltage, 3-phase, 45 to 50 cycle.	Ea			31	
	b) Transformer, oil immersed, distribution type, 3-phase, 45 to 50 cycle, self cooled, high voltage to be 9,000 volts, low voltage to match generators.	Ea			31	
	c) Spare parts set and maintenancetool set for 6-month operating period, as recommended by manufacturer.	St			31	
None	5. GENERATOR-TRANSFORMER SET, consisting of:					
	a) Generator, electric, portable, diesel engine or steam					

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Declassified E.O. 12356 Section 3.3/NND No. 785019

WAR DEPARTMENT
Q. M. C. Form. No. 401
Revised Apr. 6, 1931

REQUISITION
(Extra Sheet)

No. .....

Sheet No. 3

Stock No.	Articles	Unit	On Hand and Due	Consumed	Required	Approved
	turbine (oil fired boilers) driven, trailer mounted, 2,000 KW, standard voltage, 3-phase, 45 to 50 cycle.	Ea			15	
	b) Transformer, oil immersed, distribution type, 3-phase, 45 to 50 cycle, self cooled, high voltage to be 9,000 volts, law voltage to match generators.	Ea			15	
	c) Spare parts set and maintenance tool set for 6-month operating period, as recommended by manufacturer.	St			15	
	OR					
None	6. POWER PLANT, TRAIN MOUNTED, turbo-generator, steam boiler, 5,000 KW capacity, 45 to 50 cycle, outgoing voltage to be 9 KV, complete in all details with transformer, switchboard, and 1-year maintenance parts as recommended by manufacturer, GE make or equal.	Ea			10	
	LAST ITEM					

JUSTIFICATION: COMPLETE JUSTIFICATION FOR REQUIREMENTS INDICATED ON THIS REQUISITION IS SET FORTH IN THE ATTACHED REPORT.

This report gives in detail the availability of eclectrical energy in Central Italy progressively for the six months ending February 28, 1945. There are also given estimated requirements of electrical energy for military, essential civilian and factory rehabilitation in Central Italy for the same period.

Rating - II

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2987

3hF3
566

MINISTERO DELLE CORPORAZIONI

Ditta Brichetti Gio Maria f.lli

Brescia

Trasferimento macchinario

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Ditta Brichetti Gio Maria f.lli

Brescia

Trasferimento macchinario

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