

ACC 066/PWU

10000/150/33

10000/150/33

"ROME"

FEB. - JUNE 1944

(7) Light and power(a) Electricity

A detailed description of the supply and distribution of electricity in this district is given in Report C/228 of July 1943. The following is a summary of the supply to the city of Rome.

Grid supplies

The main sources of current are three groups of hydro stations north-east and east of the city. These are :-

(i) The Terna group about 50 miles north-east of Rome with a total capacity of at least 204,000 kW. in 1937. The three largest stations in the group are Galleto (114,000 kW. with an increase to 300,000 kW. planned); the joint station of Papigno Velino (45,000 kW.) and Papigno Penarossa (14,000 kW.); and Marmore (18,000 kW.). The main supply from this group is for the Terna industries, but power is exported to Rome by two lines at 60 kV., one through the Ter di Quinto substation and one through Tiburtina.

(ii) The Farfa group 26 miles north-north-east of Rome consisting of Farfa Alto (19,000 kW.) and Farfa Basso (9,600 kW.). Current from these stations is exported to Rome by a line at 60 kV. through the Ter di Quinto substation.

(iii) The Aniene group east of Rome of which the main stations are Acquaria Vecchia (10,000 kW.), Acquaria Nuova (Tivoli) (38,000 kW.), Subiaco (6,400 kW.), and Morino sul Liri (15,000 kW.). These stations are connected to Rome by two lines at 60 kV. through Acquaria Substation to the Tiburtina Sub station.

Local generation

1957. The three largest stations in the group are Calate (114,000 kW. with an increase to 100,000 kW. planned); the joint station of Papigno Velino (45,000 kW.) and Papigno Penarossa (14,000 kW.); and Marone (18,000 kW.). The main supply from this group is for the Terni industries, but power is exported to Rome by two lines at 60 kV., one through the Tor di Quinto substation and one through Tiburtina.

(ii) The Parfa group 26 miles north-north-east of Rome consisting of Parfa Alto (19,000 kW.) and Parfa Basso (9,600 kW.). Current from these stations is exported to Rome by a line at 60 kV through the Tor di Quinto substation.

(iii) The Aniene group east of Rome of which the main stations are Acquaria Veechia (10,000 kW.), Acquaria Nuova (Tivoli) (38,000 kW.), Subiaco (6,400 kW.), and Morino sul Liri (15,000 kW.). These stations are connected to Rome by two lines at 60 kV. through Acquaria Substation to the Tiburtina Sub station.

Local generation

There are two thermal generating stations at San Paolo on the left bank of the Tevere in the south-west of the city.

(1) San Paolo steam station owned by Azienda Elettrica di Roma; capacity 30,000 kW. (? 23,500 kW.). This is a peak load station for the city's requirements and it also exports power to the south.

(ii) San Paolo (Romano) station (also called Montemartini station) supplies power primarily to the railways through Prenestina substation. The capacity is given as 30,000 kW. The station is reported to have 10,000 kW; of diesel engines but it is not clear whether these are included in the 30,000 kW. or are in addition to the steam plant making a total of 40,000 kW.

6 PRD
 MJDT V LROF NR 15 P

FROM ACC ADV 281430B

TO MJDT

GR 76 BT

At C. Rhodes

I wrote a letter a few days ago to our Naval Sub. Comm. asking for a meeting with who was to do this work.

Pls file.

*ECI SEC 2441
 N 8/29
 PW & U (2)
 TR (1)*

ADV 122 ROME REGION ANXIOUS TO CLEAR FIUMICINO PORT OF OBSTRUCTIONS FOR UNLOADING COAL AND OTHER URGENT SUPPLIES STOP C//IS THIS PORT REQUIRED FOR NAVAL USE STOP IF SO CAN YOU ASSIST CLEARANCE OR ALTERNATIVELY (PAREN TO FORTH INFO PUB WORKS & UTIL SUBCOMM, ACC FROM ADV HQ ACC FOR COMMOBORE PALMER PAREN) GIVE AUTHORITY FOR WORK TO BE ARRANGED JOINTLY BY CE ROME AREA ONE 59TH SUB AREA BN ENGINEER ROME REGION ACC STOP CIVILIAN FACILITIES AVAILABLE

BT 281430B

SENT NR 15 280203; GMPPP

RECD NR 15 2201 280203B SS

HEADQUARTERS

29 JUN 1944

A. C. C.

Acc Dist

INFO - Econ Sec 3
 DEP CC 4200
 FILE 1
 FLOAT 1

A conference was held in office of C.E., Rome Area Command, on 20 June 44, to discuss and determine the responsibilities for Engineer Works and Services within the Rome Area Command, as between Engineer R.A.C., British Military and A.C.C.

Present: Col. W.L. Medding) C.E., R.A.C.
 Lt.Col. W.O. Peale)
 Lt.Col. A.E. Cockerton R.E.) C.R.E.
 Major R.T. Harris R.E.)
 Lt.Col. L.A. Jenny)
 Lt.Col. W.M. Lapper)
 Lt.Col. C.R. Birchett) A.C.C.
 Capt. H.J. Rosson)

In an endeavour to avoid overlapping, competition for resources, divergent instructions, and to render mutual assistance it was agreed as follows:-

A Electricity Supply - Rome Area

- (i) That the Thermal Stations at S. PAOLO, within Rome City and the small Hydro Plants at ARCI, VESTA and SCALIALE, and the H/T transmission lines therefrom and accessory plant, be under the joint control and direction of the Engineers for the time being of Rome Area, A.C.C. and C.R.E. British.
- (ii) That the distribution lines in the Area be under the same joint control, which will include the enforcement of strict rationing of both military and civilian requirements

B Water Supply

That the control of the water supply system for the City, from its sources to its distribution, be under similar control

Present:

Col. W.L. Medding) C.E., R.A.C.
 Lt.Col. W.O. Peale)
 Lt.Col. A.E. Cockerton R.E.) C.R.E.
 Major R.T. Harris R.E.)
 Lt.Col. L.A. Jenny)
 Lt.Col. W.M. Lapper)
 Lt.Col. C.R. Birchett) A.C.C.
 Capt. H.J. Rosson)

In an endeavour to avoid overlapping, competition for resources, divergent instructions, and to render mutual assistance it was agreed as follows:-

A Electricity Supply - Rome Area

(i) That the Thermal Stations at S. PAOLO, within Rome City and the small Hydro Plants at ARGI, VESPA and SCALLATE, and the H/T transmission lines therefrom and accessory plant, be under the joint control and direction of the Engineers for the time being of Rome Area, A.C.C. and C.R.E. British.

(ii) That the distribution lines in the Area be under the same joint control, which will include the enforcement of strict rationing of both military and civilian requirements

B Water Supply

That the control of the water supply system of the City, from its sources to its distribution, be under similar control.

C Roads

That the actual control of the road system, both main and secondary, be under the same joint control, but that contracts let for road maintenance and repairs be under the auspices of A.C.C.

In addition, to complete the organisation, it was agreed that Engineer representatives of P.E.S. be approached in an endeavour to obtain their co-operation on similar lines.

D Some amendments to the physical boundary of Rome Area may be necessary to ensure economical working, and will be mutually agreed.

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

GEN/EX

39

ACC/066/PWU

16 June 1944.

SUBJECT: Defascistation - Region II.
TO : Deputy Executive Commissioner.

36

1. Refer your letter 405/52/CA dated 15 June 44.
2. Please see our letter even number dated 14 June on this subject to which we have nothing to add.

GEB.

G. E. RHODES,
Lt. Col., R.E.
Deputy-Director.

4198

Encls. Copies of letters
8 June and 31 May.

HEADQUARTERS
ALLIED CONTROL COMMISSION
R.C. & M.G. SECTION
APO 394

118
R. A. B.

Ref/405/52/CA

15 June 1944

SUBJECT: Defascistisation - Region II

TO : Economic Section (for Public Works & Utilities Sub-Comm.)
Admin. Section (for Interior Sub-Comm.)

1. Correspondence PS/8 of 8 June 44 with attachments is passed to you for recommendation.
2. Please treat this matter as urgent.

by [Signature] White
for NORMAN E. FISKE
Colonel
Deputy Executive
Commissioner
Major G.

DW/JR

Lt Col Rhodes

Please prepare reply

4197

15/6

15 June
SI

CONFIDENTIAL

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

GER/ccb 37

ACC/066/PWU

14
19 Jun 44

Subject: City of Rome Administration.

To : Col. Medding (Engineer Services),
City Administration Section, Rome.

I enclose for your information copy of a letter No. ACC/066/PWU, dated 28 May 44, giving lists of Italian officials. Of the first three we are told Dr. Engr. Polinea may be the most reliable.

GER.

G.E. RHODES,
Lieut-Colonel, R.E.,
Deputy Director.

Enclos: Letter to Econ. Sect., A.C.C.

CONFIDENTIAL

Director

The papers attached 4196
are in conflict with last
page of our letter 28/5
GER.
1/6.

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

GER/ccb

ACC/066/PWU

11 Jun 44.

Subject: Defascistisation - Region II.

To : Deputy Executive Commissioner.

1. Your letter No. 405/70/CA dated 10 Jun 44.
2. In view of the information contained in the enclosure (with your letter) we concur as to the retention in office of Dott. Ing. Pietro Calentani Ungaro, of the Apulian Aqueduct Co.
3. This man was referred to in our letter No. ACC/066/PWU of 28 May to Economic Section, but that paragraph is now being corrected (to Economic Section) in view of the more detailed information now furnished.

Enclos: Documents referred to.

GER 4195
C.E. RHODES,
Lieut-Colonel, R.E.,
Deputy Director.

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

File

GER/ccb

ACC/066/PWU

Subject: Defascistisation - Region II.

To : Economic Section.

1. Reference the last para. of our letter ACC/066/PWU of 28 May 44. fuller details have now been received concerning Pietro Callentani Ungaro, and the information in that para. may be considered to be cancelled.
2. In this connexion I enclose a copy of our letter ACC/066/PWU of 14 June.

14 Jun 44.

Encl: ACC/066/PWU dated 14 June 44.

G.E. RHODES,
Lieut-Colonel, R.E.,
Deputy Director.

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

LAJ/mc

ACC/066/PWU

6 Jun 1944

Subject: Trip to Rome.

To : V.P. Economic Section.

Reference my request of 5 June 1944 for travel orders to go to Rome with the Minister of Public Works and the Director General of the Ministry. Also refer to letter from Executive Commissioner on the above subject, dated 5 June 1944, par. 3.

We want to go as quickly as permissible, therefore, the date depends upon the Order. We believe that we can complete our mission at Rome in three days and the order should be made out accordingly.

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

4194

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

LAJ/me

ACC/066/PWU

June
5 ~~May~~ 1944

Subject: Trip to Rome.

To : V.P. Economic Section.

In view of the great uncertainty regarding the loyalty to the present Italian Government of key engineering personnel left in Rome, and the great importance of properly organizing and reestablishing public works and utilities in and around Rome, and in further view of the fact that such key personnel could sabotage our effort, it is most important that the Minister of Public Works, the Director General of the Ministry, (highest ranking engineer in the permanent establishment) and myself proceed to Rome at the earliest possible date to

1. Look into the above matters.
2. Look into the possibility of obtaining Italian engineers to overcome the present serious shortage.
3. To take whatever authoritative steps that may be needed to establish a proper functioning of public works and utilities.

Will you therefore please have orders issued for the following to go to Rome by automobile on Wednesday June 7th 1944.

Lt.Col. L.A. Jenny, Dir. P.W. & U. Sub-Commission.
Alberto Tarchiani, Minister of Public Works.
Camillo Tizzano, Director Gen. Ministry of Public Works.

4193
File
L.A. JENNY,
Lt.-Col., C.E.,
Director.

ENGINEERING DIVISION
AEC REGION IV

Ref. R4/ENG/500.2

27 May 1944

SUBJECT : Pontine Marshes.

TO : 400 Public Utilities Sub-Commission.

1. Enclosed is report from Col. Edwards R.E. on HITT-
TORIA.

From it you will realise that flooding is extensive and also Water Supplies out of action.

2. The area is at present under AMG 5th Army but will eventually revert to Region IV.

5th Army have allotted one officer from their Engineer Division, Captain Gaither, a practical engineer with experience of varied types of work.

This officer has to cover the whole of 5th Army Area less Rome City and has already got Water Supplies at Sessa, Formia, Gaeta, Terracina, Littoria and Itri Water Supply known to be out of action, and so far has found no Italian Engineer north of Sessa. It is hoped he will shortly also have a large part of Rome Province.

It is obvious that a major problem like the Vittorio Veneto cannot receive the required attention.

3. It is requested that action be taken by you on the suggestion contained in his report and arrange for a competent Italian Engineer, if possible one who already knows the Marshes and drainage system, to take charge and organise work to mitigate the Floods and eventually reinstate the drainage.

4. Also enclosed are reports on Terrasolus, Littoria, Itri Water Supply for your information, 2 copies of 4192

1st. Col. R.E.
Deputy Regional Engineer
Region IV, ACO

Encl: 4
Reports of Col. Edwards

Noting
In

542
28 | 5

20/10
S. Tizzana - at offer. He is
Sandoz Zoffi tomorrow 29/5.
LBR.

Geo W Hendry

24

Extract from report by Col. E.J. EDWARDS dated ~~2~~ 27 May 1944

PONTINE MARSHES

PONTINE MARSHES a dismal sight water up to top of ground floor windows.

There is still a flow into various channels and areas. Possibly something could be done if action taken quickly by people with real knowledge of this vast scheme. An improvised dam has been built across one channel by (I am inclined to think) U.S. engineers who have very possibly got the whole thing 'taped'.

In my opinion a competent Italian official should go up at once and collect all the workmen of the scheme weir-men, regulator-men, pumping station attendants. Some dams and weirs appear sound. Demolition appears only partial but may be very thorough for all that.

Inform Jenney right away and send him a note in writing suggesting this course. I have secured Lt. Col. Main's permission (Fifth Army AEC Field) PONTINIA and hamlets above water. Some bridges remain; demolitions very hasty.

Distribution:

Dir. F.C.H. 5th Army - 2
Engineering - 1
A.C.C. - 2 ✓

419
L.M.M.
28 May

Extract from report by Col. EJ. HOWARDS R.E. dated 27 May 1944. 22

TERRACINA, WATER SUPPLY

I visited TERRACINA and places NORTH yesterday. TERRACINA water supply pumped up from a point along ROUTE 7 to North West of Town. Pumps smashed. Hence whence comes the water? Gaither says he can get pumps anyday! Distinctly contrary to British experiences !! Service reservoirs above town. Port badly smashed.

Distribution:

Dir. TCU 5th A.	- 2
Co. & Supply	- 1
Engineering	- 1
A.T.C.	- 2 ✓

V. 41904
28/7

Extracts from report by Col. E.J. Edwards, R.E. dated 27 May 1944

LITTORIA

In Littoria.

^ Tell Hawker there is a Provincial post office and telegraph office. Much telegraph printed paper (ribbon). Some directories, etc. 6 tables with 4 machines each. The machine has a reel of paper through it and something like a sender key. Should be examined promptly although most things badly smashed. (These m/c's appear alright).

(4)

Distribution:

- 2 - Director T.C.U. 5/17/44
- 2 - ~~ACC~~ ACC Public Works ✓
- 1 - ~~Economics & Supply~~
Engineering W

V. J. G. G. G.

4189

Extracts from report by Col. E.J. Edwards, R.E. dated 27 May 1944

ITRI

ITRI WATER SUPPLY

~~It~~ pumping plant for water smashed. Deemed expedient to repair old aqueduct. 15 tons of cement required. This in Gaither's hands at moment.

(5)

Distribution:

- 2 - Director T.C.U. 5 May
- 2 - HQ, ACC; P.W. ✓
- 1 - ~~Economics & Supply~~
Engineering

Verified
GMM

4188

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

LAJ/ccb

ACC/066/PWU

28 May 44.

Subject: City of Rome Administration.

To : Economic Section, A.C.C.

Reference ES/1, 24 May 44. Personnel of P.W. Ministry that may be found in Rome. Received the following information from the Minister of Public Works.

"I am submitting the list of names of High Technical Officials of the Administration of Public Works, for the reactivation of the public utilities services and repair of damages on whose assignment you may count on.

President's Superior Council Section (Public Works).

1. Giandotti Mario Dr. Engr.
2. Granone Erminio Dr. Engr.
3. Folinea Mario Dr. Engr.

General Inspectors.

4. Martinez Ernesto Dr. Engr.
5. Quintili Cesare Dr. Engr.
6. Visentini Marco Prof. Dr. Engr.
7. Ascoli Luigi Dr. Engr.
8. Buongiorno Antonio Dr. Engr.

Chief Engineers Genio Civile.

9. Petrilli Giuseppe Dr. Engr.
10. Lubrano Riccardo Dr. Engr.
11. Chesini Giuseppe Dr. Engr.

Their addresses may be found in the Telephone Directory of Rome."

We have also been advised under date of 27 May 44. that Ing. Celentani, Pietro, director of the Pugliese Aqueduct and residing in Rome, had no official connection with the Ministry, was a fascist and was undesirable.

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

Copy on 110

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

ACC/066/PWU

11 Apr. 44.

Subject: Rome City, (Engineering Data).

To : City Administrative Section, 5th. Army,
Office of the Engineer, APO 794, U.S. Army.

Memo.

With further reference to my letter reference ACC/066/PWU dated 19 Mar. 44, I send the following additional information, (extracted from Office of Strategic Services No. AB/306 dated 29 Mar. 44).

- (a) Position in Rome increasingly serious.
Population now put at 2,750,000.
Continuing influx of refugees.
- (b) No electricity, no gas, and very little water.
City faced with pestilence and disease.
- (c) Another report dated 22 Mar. 44, from another source, stated that water supply was inadequate, and gas supplies mostly out.

It may be, of course, that there is an element of exaggeration in some of the above statements.

Director

To : J-4

GER.

11/4.

4186

GER.

G.E. RHODES,
Lieut-Colonel, R.E.,
Deputy Director.

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

ABP/ccb

16
1 Apr. 44.

ACC/066/PWU

Subject: Rome - Public Services and Utilities.

To : The Secretary, University of Naples, (Engineers Dept).

Ref. our letter ACC/066/PWU dated 28 Feb. 44.

We return the three books on the above subject loaned to us by you, for which we thank you.

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

4185

Headquarters N°2 District
Public Works & Utilities Sub-Comm
Office A.C.C.
Ref. PW&U/LO/13

24 March 1944

Subject: Rome Water Works Publications

To : Lt. Col. Rhodes
A.C.C. PW&U Sc.

1. Reference your letter A.C.C. /C63/PW&U dated 8 March 44.
2. I have seen Ing. Celentano Chief Engineer of Acquedotto Pugliese regarding the publications you asked for.
3. He regrets that he has not the publications on the Acquedotto or water works of Rome.

Major W. Knight
Public Works & Utilities Sub-Comm.
Officer at N°2 District

*See
File . . . (Rome)*

5-12
7/4
4184

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

Ger/mc

8 March 1944

ACC/063/PWU

Subject: Rome Water Works Publications

To : Major Knight

Will you please call on Acquedotto Pugliese, Bari and if possible, obtain the study on Rome Aqueducts by Ing.Cortese, and any other publication on the Rome Water Works.

If you will send these publications to this office we will return them quickly as possible.

G.E. Rhodes
Lt.Col.R.E.

4183

S E C R E T

City Administrative Section
Fifth Army
Office of the Engineer
A. P. O. #794 U. S. Army

WLM/jhl
23 March 1944

SUBJECT: Rome City. (Engineering Data)

TO : Public Works and Utilities Sub-Commission, Allied
Control Commission, A.P.O. #394, U.S. Army.

Attention: Lt. Colonel L. A. JENNY

1. Receipt of letter subject, Rome City (Engineering Data) your headquarters ACC/O66/PWU, dated 19 March 1944 acknowledged.

2. The publications referred to in par. 2 of above letter will be returned to your office within the next few days.

3. Your attention is invited to the correct address for this office, which appears in the letterhead. The City Administrative Section is part of Fifth Army, not of A.A.I.

W. L. Medding
W. L. MEDDING
Colonel, C.E.
Engineer

Returned

PA

1/4

By Col Rhoads
Pls note & file
Hay 28/3

B/F 2/4

4182

28/3

S E C R E T

S E C R E T

GER/cw

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

ACC/066/PWU

19 Mar. 44.

Subject: Rome City. (Engineering Data)

To : Col. Hedding, (Engineering Services, Rome City
 Administration, ~~A.C.C.C.~~, Caserta.
 R.A.V.)

Memo.

1. With further reference to my letter, Ref. ACC/066/PWU, dated 11 Mar. 44., I send the following additional information, based on Intelligence Reports Nos D/17 and D/20 of the 13th and 11th Mar. respectively. These refer to the situation in Rome and in German-Occupied Italy, North of Rome, respectively:-

- a. Public buildings in the City are being used as ammunition dumps. Indication that Germans will defend City to the last.
- b. Further confirmation that destruction of Gas Works is planned, together with Power Stations.
- c. Position on 4th Feb. as to Public Utilities was that City had gas supplies during certain hours, daily. Some suburbs had no water. Electricity practically normal.
- d. Report dated 12 Feb. stated that population had increased greatly. Figure put at 2 1/2 million people by the "Source" (This seems to be a very high figure indeed).
- e. A bombing raid on 20 Jan. caused damage to sewerage system described as "Serious".

2. Referring to the publications forwarded to you with my letter 9 Mar., (property of the Naples University), we shall be glad if you will return them to us by the end of this month.

3. *Kindly acknowledge receipt.*

L. A. 1871.
 Lt. Col. C.E.
 Director.

S E C R E T

S E C R E T

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

GER/ama *12*

ACC/O66/PWU

9 March 1944

SUBJECT: Rome City. (Engineering Data)

TO : Col. Medding, (Engineering Services, Rome City
Administration), A.C.M.F., Caserta.

1. Reference the decisions reached at the meeting held here on 21 Feb. 1944, I send herewith the following, which we believe to be of value in connection with the above matter.

- (a) Extracts from the publication I.S.T.D./C/221 dated 4 Aug. 1943. (3 copies)
- (b) Map giving additional details of the Water Supply Aqueducts. (supplied by Ing. Ruggiero)
- (c) 3 books of plans, sections and descriptive matter relating to the main drainage of the City. (It is understood that this is wholly gravitational.) These are books of record and have been obtained from the Engineer Branch of the Naples University. They are of special value and it will be appreciated if, after taking extracts or making necessary copies of maps etc, you will return them to this office not later than the 31st. March.

2. Kindly acknowledge receipt. Further data will be forwarded as it becomes available. The above data was borrowed by us from the University of Naples and must be returned as soon as possible. We therefore suggest that you make copies, photostat or otherwise, of any data you may consider of value so that you may return these books and data to us, for transmittal to the University.

L. A. Jenny
L. A. JENNY,
Lt. Col., C.E.,
Director.

C.C. Economic Section.

S E C R E T4179 *late*

Receipt acknowledged 10 Mar. 1944
H. L. Medding Col. C.E.

SECRET

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

GER/mc

ACC/066/PWU

11 March 1944

Subject: Rome City- Public Services.

To : Col. Medding, (Engineering Services, Rome City
Administration), A.C.M.F., Caserta.

Memo:

1. Further to the information forwarded with my letter No. ACC/066/PWU dated 9 March 44, I send additional data as follows:-

From reports by G.2 (Adv. Intelligence) A.F.H.Q. c/o P.B.S.,
Naples.
i. Summary of recent reports on Rome.
Intelligence Report No. D-6 of 19/2/44.
Section C (Mining).

"Germans appear to intend destroying the Gasworks,
and the electric power stations, excluding the thermo-
electric stations (2/2/44)."

ii. Waterworks Offices and Hdqrs. Addresses.

(a) Societa Acqua Pia Antica Marcia,
Via del Pozzetto, 108.

(b) Azienda Governatoriale Elettricit  Acqua,
Via Nazionale, 196.

(c) Soc. Italiana per Condotte di Acqua,
Via Propaganda, 3.

iii. Also see Inter-Service Topographical Dept. Book No. I.S.T.D/C/228 of 4/8/43, page 28 et seq. Rome Water, and Elec. Supplies.

iv. Refer, also, to Report No. 1 of Dec 5th, 1943 on Region I.

Subject: Rome City- Public Services.

To : Col. Medding, (Engineering Services, Rome City Administration), A.C.M.F., Caserta.

Memo:

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From reports by G.2 (Adv. Intelligence) A.F.H.Q. c/o P.B.S.,
i. Summary of recent reports on Rome.
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Section C (Mining). Naples.

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Via Nazionale, 136.

(c) Soc. Italiana per Condotte di Acqua,
Via Propaganda, 3.

iii. Also see Inter-Service Topographical Dept. Book No. I.S.T.D/C/228 of 4/8/43, page 28 et seq. Rome Water, and Elec. Supplies.

iv. Refer, also, to Report No. 1 of Dec 5th. 1943 on Region I (Lazio - Campania) by Office of Strategic Services, Research and Analysis Branch (R. & A. No. 1191), Survey of Repair Facilities.

2. If you have not got publications (iii) and (iv) above, I shall be glad to arrange for them to be loaned to you, for a day or two, from the A.C.C. Library here.

Copy to: Economic Section.

4189
L.A. JENNY,
Lt.-Col., C.E.
Director.

SECRET

HEADQUARTERS
ALLIED CONTROL COMMISSION
Public Works and Utilities Sub-Commission
APC 94

GER/ams

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KOC/056/P40

9 March 1944

SUBJECT: Rome City. (Engineering Data)

TO : Col. Ted Ing, (Engineering Services, Rome City
Administration), A.C.W.F., Caserta.

1. Reference the decisions reached at the meeting held here on 27 Feb. 1944, I send herewith the following, which we believe to be of value in connection with the above matter.

- (a) Extracts from the publication I.N.T.D./6/321 dated 4 Aug. 1943. (3 copies)
- (b) Map giving additional details of the Water Supply Accidents. (supplied by Ing. Ruggiero)
- (c) 3 books of plans, sections and descriptive matter relating to the main drainage of the City. (It is understood that this is wholly gravitational.) These are books of record and have been obtained from the Engineer Branch of the Naples University. They are of special value and it will be appreciated if, after taking extracts or making necessary copies of maps etc, you will return them to this office not later than the 31st. March.

2. Kindly acknowledge receipt. Further data will be forwarded as it becomes available. The above data was borrowed by us from the University of Naples and must be returned as soon as possible. We therefore suggest that you make copies, photostat or otherwise, of any data you may consider of value so that you may return these books and data to us, for transmission to the University.

L. L. JIMMY,
Lt. Col., C.E., 4178
Director.

C.L. Economic Section.

SECRET

Local distribution

The following substations are known to be concerned in the supply to Rome :-

- (i) Tor di Quinto (? at the village of that name a short distance north of Rome). This is the receiving station for one of the two lines at 60 kV. from Terni and for the line from Farfa. Current is stepped down to 8.4 kV. for local distribution through
- (ii) Flaminia transformer and switching station, at 733716 on G.S.G.S. 4380 on the right bank of Tevere. Current is distributed at 6.4 kV. and also stepped down to 2 kV.
- (iii) Tiburina transformer and switching station, at 785685 on G.S.G.S. 4164 Sheet 150, just north-east of the cemetery, is the receiving station for one of the lines from Terni and for current from the Aniene group (all at 60 kV.). Current is stepped down to 8.4 kV. for distribution through.
- (iv) Berta Pia which steps down current to 2 kV. The exact position of the substation is unknown, but the Porta Pia is at 757683 on G.S.G.S. 4380.
- (v) San Paolo substation receives current from the San Paolo generating station and at 60 kV. from the Aniene group. The current is stepped down to 8.4 kV. for local distribution and for transmission to
- (vi) Astalli distributing station on Via degli Astalli.

The distribution lines connecting the inner ring to the outer ring of substations are all underground.

In addition there are reported to be transformer stations at the following positions but no details are known :-

- (i) 800670 on G.S.G.S. 4164 Sheet 150; a railway substation

(iii) Tiburtina transformer and switching station, at 785685 on G.S.G.S. 4164 Sheet 150, just north-east of the cemetery, is the receiving station for one of the lines from Terni and for current from the Aniene group (all at 60 kV). Current is stepped down to 8.4 kV. for distribution through.

(iv) Porta Pia which steps down current to 2 kV. The exact position of the substation is unknown, but the Porta Pia is at 757693 on G.S.G.S. 4380.

(v) San Paolo substation receives current from the San Paolo generating station and at 60 kV. from the Aniene group. The current is stepped down to 8.4 kV. for local distribution and for transmission to

(vi) Astalli distributing station on Via degli Astalli.

The distribution lines connecting the inner ring to the outer ring of substations are all underground.

In addition there are reported to be transformer stations at the following positions but no details are known :-

- (i) 800670 on G.S.G.S. 4164 Sheet 150; a railway substation 4177
- (ii) 825611 on G.S.G.S. 4164 Sheet 150
- (iii) 738589 on G.S.G.S. 4164 Sheet 150; under construction in June 1943.

In most parts of the city the power consumed is 3-phase 50 cycle AC 127/220 volts, though there is some use of power at 105 volts and some DC at 105 volts.

(b) Gas

The gas works is at San Paolo between the left bank of the Tevere and Via Ostiense, at 735637 on G.S.G.S. 4380; it is owned by Soc. Romana del Gas and is reported to have an annual capacity of 77015 million cubic metres. There are at least four wet-type gas holders.

(8) Water

The water in Rome is reported to be of good quality and fit to drink although it contains a large quantity of lime. The quantity has always been sufficient for normal requirements. The town is supplied by several aqueducts, of which the most important are :-

(i) Aequa Marcia, fed by springs in the Sabine mountains, is an old aqueduct which was restored in 1869. In 1937 it was estimated that the yield in 1940 would be 4,750 litres/sec.; it supplied two-thirds of the town's water and nine-tenths of the drinking water. It approaches the town from the north-east, and at 813694 on G.S.G.S. 4828 Sheet 150-IV-NW, divides; one branch runs almost due west, crosses the railway at 778695 and continues to the barracks at 775695. The other branch goes south-west following the course of Via Tiburtina and can be traced to 765673.

(ii) Aequa Vergine, fed by springs at 867684 on G.S.G.S. 4164 Sheet 150, follows a west-south-westerly course to 790671 and then turns north and enters the north-east outskirts of the town at 780702. It supplies the remaining one-tenth of the town's drinking water. In 1937 it was estimated that the yield in 1940 would be 890 litres/sec.

(iii) Aequa Felice, fed by a spring at 969609 on G.S.G.S. 4164 Sheet 150, a short distance north-east of Celanara, and by springs at 953642. The aqueduct follows a course mainly south-westward to 813600 where it turns north-west and follows the railway line to enter the south-eastern outskirts of the town; this north-western section is above ground. It can be traced to 774658. In 1937 it was estimated that the yield in 1940 would be 250 litres/sec.; the water is not used for drinking.

(iv) Aequa Paola starts from 470937 on G.S.G.S. 4164 Sheet 143, and follows the northern shore of Lago di Bracciano to 576900 where it turns south-west and follows the course of the railway line from 598863 to 693706; thence it continues south to enter the western side of the town. In 1937 it was estimated that the yield in 1940 would be 890 litres/sec.; the water is not used for drinking.

divides; one branch runs almost due west, crosses the railway at 778695 and continues to the barracks at 778695. The other branch goes south-west following the course of Via Tiburtina and can be traced to 759673.

- (ii) Acqua Vergine, fed by springs at 867684 on G.S.G.S. 4164 Sheet 150, follows a west-south-westerly course to 790671 and then turns north and enters the north-east outskirts of the town at 780702. It supplies the remaining one-tenth of the town's drinking water. In 1937 it was estimated that the yield in 1940 would be 890 litres/sec.
- (iii) Acqua Pelios, fed by a spring at 969609 on G.S.G.S. 4164 Sheet 150, a short distance north-east of Celennas, and by springs at 953642. The aqueduct follows a course mainly south-westward to 813600 where it turns north-west and follows the railway line to enter the south-eastern outskirts of the town; this north-western section is above ground. It can be traced to 774658. In 1937 it was estimated that the yield in 1940 would be 250 litres/sec.; the water is not used for drinking.
- (iv) Acqua Paola starts from 170937 on G.S.G.S. 4164 Sheet 143, and follows the northern shore of Lago di Bracciano to 576900 where it turns south-west and follows the course of the railway line from 598653 to 695706; thence it continues south to enter the western side of the town. In 1937 it was estimated that the yield in 1940 would be 890 litres/sec.; the water is not used for drinking.
- 4178
- (v) In 1937 a new aqueduct was planned to use the water from the Fontana springs, both as a source of drinking and industrial water and for use for the production of electric power. The aqueduct was planned to divide at Salicane, one branch running on the left bank and one on the right bank of the Tevere. It is known that construction had been started before 1939, but it is known how far it has advanced.
- not
- There are four pressure stabilization tanks for the town water supply south of Piazzale di Porta Maggiore and east of Via Eleniana at 769662 on G.S.G.S. 4228 Sheet 150-IV-SB. and G.S.G.S. 4380 (Town plan of Rome).

file 3

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

GER/in

ACC/066/PWU

Feb 28, 1944

Subject : Roms - Public services & Utilities

TO : The Secretary, University of Naples (Engineer Dept.)

1. If You have any data, publications, maps etc., on the above - e.g. sewers, water, gas etc. , I should be glad if you will let me have the loan of them, for 2/3 days.

Capt. Woodson

L.A.L. JENNY
Lt. Col. C.E.
Director

*Letter and M) Sgt.
referred to Mr. - to
follow this up.*

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*Completed
WM
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