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

ACC 171A/PWU

10000/150/477
(VOL. A)

CEB & ERC/
TION COMM
FEB. 1944

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

10000/150/477
(VOL. A)

CEB & ERC, ELECTRICAL RECONSTRUCTION COMMITTEE, CORRESPONDENCE
FEB. 1944 - AUG. 1946

SECRET

171A

C.E.B. and E.R.C.

171/PWU ELECTRICAL RECONSTRUCTION COMMITTEE Volume A

CORRESPONDENCE

OPENED: 6 FEB. 44

CLOSED: 6 AUG 46

10000 150 477

THIS FOLDER CONTAINS PAPERS
FROM FEB - 44
TO AUG - 46
CATALOGUE-

See also File 171 & 171B

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

CORRESPONDENCE

OPENED: 8 FEB, 44

CLOSED: 6 AUG 46

10000 150 477

THIS FOLDER
CONTAINS PAPERS
FROM FEB - 44
TO AUG - 46
CATALOGUE.

See also File 171 & 171B

G.O.

[redacted]

Dawn graduf 6 aug 1946
HK Laughlin
major CE
secretary.

171A

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

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

AY/ec

HEADQUARTERS ALLIED COMMISSION
APO 794
Industry and Utilities Branch

MEMORANDUM

16 August 1946

Files 171/PWU, 171A/PWU, and 171B/PWU, Electrical Reconstruction Committee, down-graded as of this date.

Certified True Copy
[illegible]
Chief Clerk

SECRETARY OF COMMITTEE

L. W. Laughlin
Major, C.E.

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

ELECTRICAL DIVISION

RESTORATION OF ITALIAN ELECTRICAL PLANT AND TRANSMISSION SYSTEM

PROGRESS REPORT FOR MONTH OF JANUARY 1945

E.D. 2629

W.H. LAPPIN LT.COL.
Chief Electrical Division

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

C E N T R A L I T A L Y

TABLE "A"

Installed generating capacity and present output of generating stations in operation on the grid system as of 31 January 1945.

Name of Station	Installed generating capacity KW	Present output capacity KW	REMARKS Reason for LOSS in output
ACQUORIA	57,300	3,400	War damage.
ANCONA TH.	4,240	-	War damage.
ANGHIARI	1,308	-	War damage.
ANVERSA PRINCIPALE	30,000	-	War damage.
ARCI	8,320	5,000	Insufficient water.
ARLIA	3,500	-	Enemy hands.
AURELIA TH.	2,500	-	War damage.
AVENTINO	9,600	-	War damage.
BASTARDO TH.	15,000	-	War damage.
BOLOGNOLA	2,760	1,350	Insufficient water.
BORGO (FIORACO)	1,182	-	No report.
BUSSI SUL TIRINO 2 S.	1,500	-	No report.
CAMESTRO	New const.	-	War damage. 12,960 KW.
CANTERNO	New.const.	-	Being completed. 12,000 KW
CARSOLI	1,048	4709	Incomplete report.
CASTELLANO	6,720	-	War damage.
CASTELNADRA	14,000	-	War damage.
CASTELNUOVO GARFAGNANA	7,200	-	Enemy hands.
CASTELNUOVO SABBIONI TH.	20,400	-	War damage.

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ACQUORIA	57,300	3,400	War damage.
ANCONA TH.	4,240	-	War damage.
ANGUIARI	1,306	-	War damage.
ANVERSA PRINCIPALE	30,000	-	War damage.
ARCI	8,320	5,000	Insufficient water.
ARLIA	3,500	-	Enemy hands.
AURELIA TH.	2,500	-	War damage.
AVENTINO	9,600	-	War damage.
BASTARDO TH.	15,000	-	War damage.
BOLOGNOLA	2,760	1,350	Insufficient water.
BORGO (PIORACO)	1,182	-	No report.
BUBSI SUD, TIRINO 2 S.	1,300	-	No report.
CANISTRO	New const.	-	War damage. 12,960 KW.
CENTENO	New.const.	-	Being completed. 12,000 KW
CALOSSI	1,048	4708	Incomplete report.
CASTELLANO	6,720	-	War damage.
CASTELMADAMA	14,000	-	War damage.
CASTELNUOVO GARFAGNANA	7,200	-	Enemy hands.
CASTELNUOVO SABBIONI TH.	20,400	-	War damage.
CASTELNUOVO VAL CECINA TH.	48,000	-	War damage.
CEPRANO	12,860	3,500 @	Unit transferred.
CERVARA	9,000	6,900	Aged machines.
COLLESALVETTI	9,000	-	War damage.

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@ ESTIMATED.

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TABLE "A" (Continued)

Name of Station	Installed generating capacity KW	Present output capacity KW	REMARKS Reason for LOSS in output
OSWALDO	9,120	5,700	Insufficient water.
OSTIGLIA (PONTE DOSI)	4,760	-	Enemy hands.
OSTILLI	54,720	-	War damage.
PE CECCO	1,800	550 G	Incomplete report.
P.E. 1	19,200	-	War damage.
P.E. 2	9,000	4,500	War damage.
PONTE NERI (CENGOLI)	2,880	-	War damage.
PONTEROPA	4,800	-	War damage.
PUGLO	2,820	-	War damage.
CALLETO	137,600	20,000	War damage.
GALLICANO	22,000	-	War damage.
GENOA SUPERIORE	14,000	-	War damage.
GIARDINETTO (LIRI)	7,240	-	War damage.
L.M. DEI TELEGNI	1,600	-	War damage.
LAGHERINO 1 TH.	6,900	2,950	War damage.
LAGHERINO 2 TH.	72,000	-	War damage.
LIVORNO TH.	42,000	-	War damage.
LIVORNO (U.S. ARMY)	Portable	1,600 G	Portable equipment 4 x 400 KW units.
MANDELA	6,000	-	War damage.
MARMORE	17,900	-	War damage.
MOLIN. ANTINO	1,050	-	War damage.
MORLO 1 S.	1,080	-	War damage.

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CORTINO (PONTE COSI)	4,780	-	Enemy mines.
COTILI.	54,720	-	War damage.
DE CECCO	1,800	550 @	Incomplete report.
F.LLI 1	19,200	-	War damage.
F.LLI 2	9,000	4,500	War damage.
FONTANA LUNGA (CIULASCOLI)	2,880	-	War damage.
FONTECUPA	4,500	-	War damage.
FUNGO	2,620	-	War damage.
GALLETO	137,600	20,000	War damage.
GALLICANO	22,000	-	War damage.
GIROL. SUCCURSALE	14,000	-	War damage.
GIUDITTA (LIRI)	7,240	-	War damage.
L.M. DEI PENNONI	1,650	-	War damage.
LADISLAO 1 TR.	6,900	2,950	War damage.
LADISLAO 2 TR.	72,000	-	War damage.
LIVORNO TR.	42,000	-	War damage.
LIVORNO (U.S. ARM)	Portable	1,600 @	Portable equipment 4 x 400 M units.
MANDELA	6,000	-	War damage.
MARCHE	17,900	-	War damage.
MOLIN. MARIO	1,050	-	War damage.
MORTO 1 S.	1,080	-	War damage.
MORTO 2 S.	1,666	-	War damage.
MORTO	12,800	-	War damage.
MOSCANO	2,650	-	War damage.
MTE. MONTORO	19,600	15,800	Insufficient water.

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@ ESTIMATED. - 3 -

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C E N T R A L I T A L Y

TABLE "A" (Continued)

Name of Station	Installed generating capacity KW	Present output capacity KW	REMARKS Reason for LOSS in output
PAPIENO	66,000	-	War damage.
PAVIA	12,800	-	War damage.
PELSO	4,500	3,500	
PELAGALLI (S'ANGELO)	2,000	1,000	War damage.
PESCARA 1	9,920	-	War damage.
PESCARA 2	11,520	-	War damage.
PESCARA 3	20,500	-	War damage.
PESCARA 4	28,800	-	War damage.
PETTORANO (CIVIC)	4,000	-	War damage.
PIANAROCCI	1,920	1,900 @	
PIAN DELLA ROCCA	33,600	1,000 @	War damage.
PIANICELLA	1,870	1,600	
PIETRAFITTA TH.	16,300	-	War damage.
PIOMBINO TP.	6,960	-	War damage.
POLVERIFICIO FONTANA LIRI	1,850	-	War damage.
PONTEDERA (S.GIOVANNI INC.)	9,000	-	War damage.
PONTE S. G. (SELVA PIANA)	7,100	-	War damage.
PONTOGNANO TP.	4,480	-	War damage.
PRATOLA	1,175	-	War damage.
PRECI	9,100	-	War damage.
PROVIDENZA	New const.	-	Proposed 120,000 KW.

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P.Vala	12,300	-	War damage.
PTD.SO	4,500	3,500	
PELAGALLI (STRELLE)	2,000	1,000	War damage.
PESCARA 1	9,920	-	War damage.
PESCARA 2	11,520	-	War damage.
PESC.R. 3	20,500	-	War damage.
PESCARA 4	28,800	-	War damage.
PETTORANO (GILIO)	4,000	-	War damage.
PIANAROCCI	1,920	1,900 @	
PIAN DELLA ROCCA	33,600	1,000 @	War damage.
PIANIGELLA.	1,870	1,600	
PIETRAFITT. TH.	16,300	-	War damage.
PIOMBINO TH.	6,960	-	War damage.
POLVERIFICIO PONTE NA LIRI	1,850	-	War damage.
PONTECORVO (S.GIOVANNI INC.)	9,000	-	War damage.
PORTO S. G. (ESTATICHE)	7,100	-	War damage.
PORTOFERRAIO TH.	4,480	-	War damage.
PRATICO	1,175	-	War damage.
PRATI	9,100	-	War damage.
PROVVIDENZA	New const.	-	Proposed 120,000 KW.
RIETI TH. (Non Grid)	2,000	840	Coal supply exhausts.
RIFREDI TH.	7,000	-	War damage.
RIGNANO (PIGNO) (On Grid)	3,400	1,400 @	War damage.
ROCCHETTA.	3,400	-	Enemy hands.

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C E N T R A L I T A L Y

TABLE "A" (Continued)

Name of Station	Installed generating capacity KW	Present output capacity KW	REMARKS Reason for LOSS in output
ROME TR.	52,000	27,900	Maint. & Repairs.
ROSIGNANO TR.	9,344	3,000 @	War damage.
S.ELISAFO	16,000	-	War damage.
S.[illegible]	1,360	185	War damage.
S.[illegible]O	New const.	-	Proposed 158,400 KW.
S.SAVINO (SNE)	1,408	480	
SCANDELE	8,000	4,000	Insufficient water.
SENIGA	3,150	-	War damage.
SILLANO	1,080	-	Enemy hands.
SILLICO	1,200	-	Enemy hands.
SPERANDO	12,680	-	War damage.
SPOLETO (Non Grid)	2,450	250	
SUBIACO	7,760	3,200	War damage.
TAGLIA	30,000	-	Enemy hands.
TERNI JUTE	1,100	900	
TERNI MINIO.	2,800	-	War damage.
TERNI PLATE	1,500	-	Generator burned out.
TERNI SIDER (Non Grid)	1,464	494	
VENAFROLIO	15,520	-	War damage.
VESTA	2,640	2,300	
VOLSI	3,520	2,300	
[illegible]	1,775	-	War damage.

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ROSIGNANO T.	9,340	3,000 @	War damage.
SALISANO	16,000	-	War damage.
S.MARIA	1,360	165	War damage.
S.PIERO (2	New const.	-	Proposed 158,400 Kw.
S.SAVINO (CMB)	1,408	480	
SCARLINO	8,000	4,000	Insufficient water.
SELVENA	3,150	-	War damage.
SILLANO	1,080	-	Enemy hands.
SILLICO	1,200	-	Enemy hands.
SPEDALDO	12,680	-	War damage.
SPOLETO (Not Grid)	2,450	250	
SUBIACO	7,760	3,200	War damage.
TERNI	30,000	-	Enemy hands.
TERNI JUNC	1,100	900	
TERNI MINIC.	2,800	-	War damage.
TERNI PLATE	1,500	-	Generator burned out.
TERNI STEEL (Not Grid)	1,464	494	
VERNAZZANELLO	15,520	-	War damage.
VESTA	2,640	2,300	
VULCI	3,520	2,300	
ZAGO. 1	1,775	-	War damage.
ZAGO. 2	1,200	-	War damage.
SMALL PLANTS	64,306	9,748	56 Plants operating.

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CENTRAL ITALY

TABLE "A" (continued)

Name of Station	Installed generating capacity KW	Present output capacity KW	REMARKS Reason for loss in output.
MOLISE:			
CAMPO VOLTURNO	20,000	-	War damage.
LETE (PIETRA CAMERELLA)	9,400	-	War damage.
PONTELANDOLFO	2,240	-	War damage.
S. [illegible]SERIO	5,800	-	War damage.
S.S ERMETE	1,250	-	War damage.
[illegible]	1,070	-	War damage.
[illegible]	1,000	-	War damage.
TOTALS	1,292,336	145,817	

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LCU (FR.T. SARTRE.)	9,400	-	War damage.
PONTBOTTO	2,240	-	War damage.
S.[illegible] S.P.O	5,000	-	War damage.
S.S IRETO	1,250	-	War damage.
[illegible]	1,070	-	War damage.
[illegible]	1,000	-	War damage.
TOTALS	1,292,336	145,817	

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CENTRAL ITALY

TABLE "B"

Schedule of Generator Capacity in service and being repaired 31 January 1945.

Name of Station	Plant in operation 31 Jan.1945	YEAR 1945					
		28 Feb.	31 March	30 April	31 May	30 June	31 July
ACQUORIA	3,500			4,000			
ARCI	8,320						
BOLOGNA	2,760						
CARBOSAI	720						
CEPRANO	3,500			5,500			
CERVARA	9,000						
CORNACCHIA	9,120						
DR CROCE	600						
FARFA 2	4,500						
GALLETO	34,400			34,400		34,400	34,400
LANDRIANO 1	4,600						
LEGNONE (U.S.A.)	1,600						
MURA MONTORO	19,600						
PADOVA	4,500						
PALAGELLI	1,000						
PIANARUCCI	1,920						
PIAN DELLA ROSA	14,000	11,000					
PINICELLA	1,870						
PRATI TH.	1,000						
PRONENO	1,400						
RECI FINALE	33,000						

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ARCI	8,320							
BOLOGNOLA	2,760							
CARBOSAI	720							
CERRANO	3,500			5,500				
CERVARA	9,000							
CONCACCIA	9,120							
DI CECCO	600							
FAMA 2	4,500							
GALLETO	34,400			34,400		34,400	34,400	
LABERTILO 1	4,600							
LEGHORN (U.S.A.)	1,600							
MERA MONTORO	19,600							
PERESO	4,500							
PALAGALLI	1,000							
PIANARUCCI	1,920							
PIAN DELLA ROCA	14,000	11,000						
PLANICELLA	1,870					2623		
RIETI TH.	1,000							
RIGOLDHO	1,400							
RIETI TURRIAN	33,000							
ROSIGNANO	6,000							
S.ELENA	400							
S.SAVINO (SIG)	800							
SCALELLE	4,000							
SPOLETO	3,500							
SUBLACO	3,880							

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TABLE "E" (Continued)

Name of Station	Plant in operation 31 Jan.1945	YEAR 1945					
		28 Feb.	31 March	30 April	31 May	30 June	31 July
TERNI JUTE	1,100						
TERNI STEEL	600						
VOLT.	2,640						
VULCI	3,520						
A.N.I. PLANTS	16,567						
ANCONA		350	210				
AVEZZANO		4,000 →					
BAGNI DI TIVOLI			250				
CANTIERI		10,000					
CASTELLANO						2,250	
CASTELNUOVO CROCIA			12,000 →				
CASTELNUOVO						6,000	
CERVIA 1				4,000			
DITTA		800					
ILVA		1,500					
LINOTAR							5,000
MOLINI				500			
MORETTI				140			
SINAIA		1,575					
SIAI		1,800				2622	
TARGET		150					
VILLACIDRO						3,000	
		31,171	12,460	8,510	-	45,650	37,400

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VEST.	2,640							
VULCI	3,520							
[illegible]	16,587							
[illegible]		350	210					
AVENTINO		4,000						
BAGNI DI TIVOLI			250					
CANTERANO		10,000						
CASTELLANO							2,250	
CASTELNUOVO GARFA			12,000					
CASTELNUOVO [illegible]							6,000	
CERRONE 1				4,000				
[illegible]		800						
[illegible]		1,500						
[illegible]								5,000
[illegible]				500				
[illegible]				140				
[illegible]		1,575						
[illegible]		1,800						
[illegible]		150					2622	
[illegible]							3,000	
Monthly Increase		31,174 22,174	12,460	48,540	-	45,650	37,400	
TOTALS	203,937	235,111	247,571	296,111	296,111	341,761	379,161	

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SOUTHERN ITALY

Table "C"

Installed generating capacity and present output of generating stations in operation as of 31 Jan.1945

Name of Station	Installed generating capacity KW	Present output capacity KW	REMARKS Reason for LOSS in output
ANIC TH.	3,000	-	No report.
CALORE	33,200	25,000	Insufficient water.
CAMPANO TH.	45,000	30,000	-
CANDELE	1,050	-	No report.
CELESTE	1,410	-	No report.
DOMANDA TH.	8,820	3,000	-
FIUME DI PESCO	1,080	-	No report.
FORTE TH.	1,400	-	No report.
GLANO	1,000	-	No report.
LUCCA TH.	1,080	-	No report.
MAIDA 1	10,500	5,400	Insufficient water.
MAIDA 2	11,200	-	War damage.
MARMARICO (FONTANELLE)	1,800	-	No report.
MERCURO	1,308	-	No report.
MONTE LUCANO	1,680	-	No report.
NAPOLI STA. TH.	1,800	-	No report.
ORICHILLA	54,000	36,000	Damaged unit.
S.GIOVANNI A PIRO TH.	1,800	-	No report.
S. MARCO (CALORE)	17,250	5,000	War damage.
SOLOFRA (CORTINA)	1,406	-	No report.
SUIO (S.GRIGLIANO)	9,225	-	War damage.
TAVAGRO 1	9,600	11,750	-
TAVAGRO 2	2,000		

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CANUSIA	33,200	25,000	[illegible]
CAPUANO TH.	45,000	30,000	-
CARDONE	1,050	-	No report.
CARESTIE	1,410	-	No report.
CASALNUOVA TH.	6,820	3,000	-
CASTEL DI IESO	1,080	-	No report.
CASTELLA TH.	1,400	-	No report.
CASTRO	1,000	-	No report.
CAUCEL TH.	1,080	-	No report.
CAVE No. 1	10,500	5,400	Insufficient water.
CAVE No. 2	11,200	-	War damage.
CENTURICOD (FONTANA VIA)	1,800	-	No report.
CERCURO	1,308	-	No report.
CERRO MAGGIO	1,680	-	No report.
CHIUSANO TH.	1,800	-	No report.
CIVITELLA	54,000	36,000	Damaged unit.
S.GIOVANNI [illegible] TH.	1,800	-	No report.
S. MARCO (TRONTO)	17,250	5,000	War damage.
SOLURI (SOTTO)	1,408	-	No report.
SUIO (GARIGLIANO)	9,225	-	War damage.
TAGLIATO 1	9,600	11,750	-
TAGLIATO 2	2,000		
TARANTO TH.	4,385	-	No report.
TEFRA CELENDE	72,800	79,000	-
TUSCIANO 2 (CERVARO)	9,680	8,150	Insufficient water.
VILLA SANTA [illegible]	23,503	-	No report.
TOTALS	332,983	203,300	

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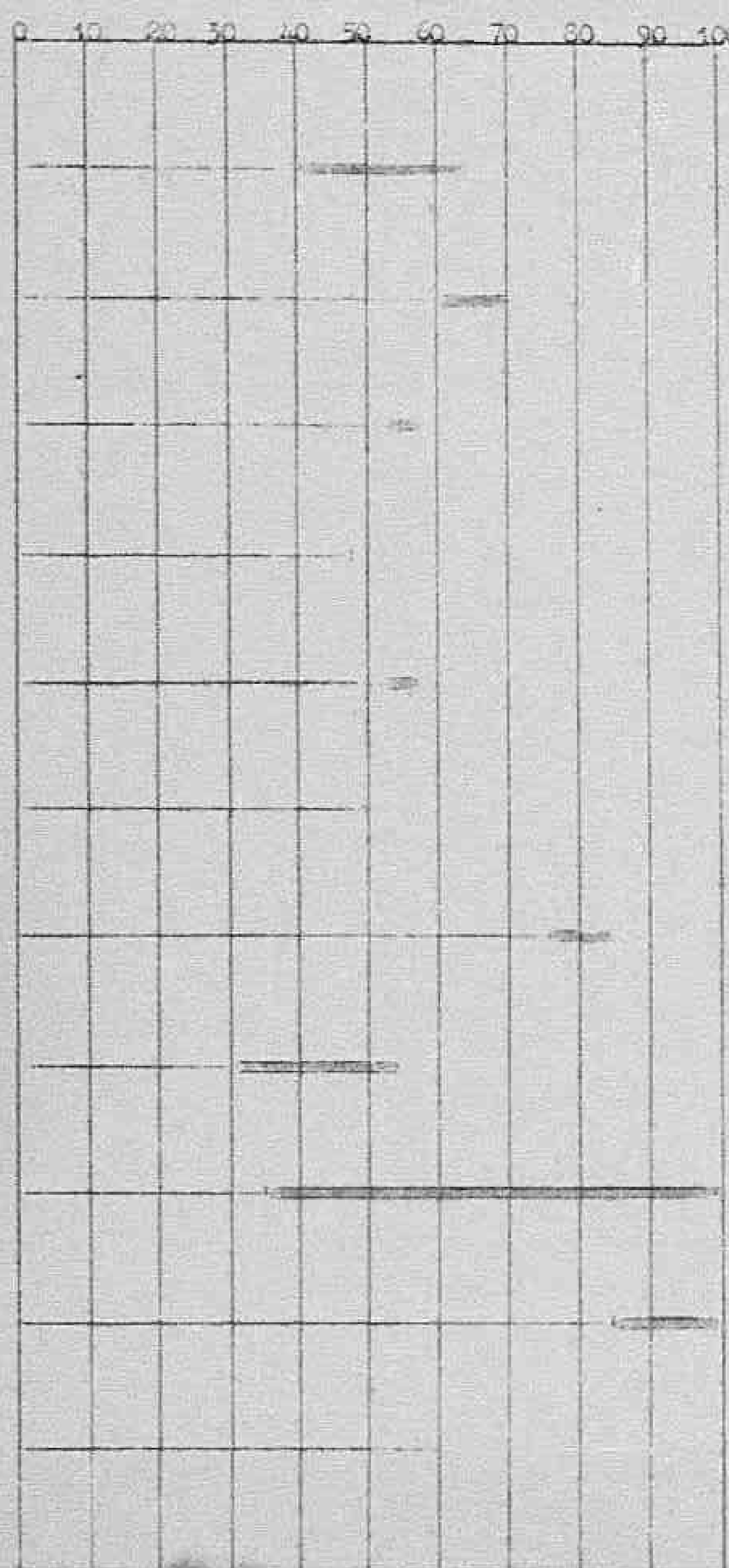
CENTRAL ITALY

CHART 1

PROGRESS OF RESTORATION OF ELECTRIC TRANSMISSION LINES



TOTAL LENGTH

150 KV Galleto - Interamna
24 Km.

150 KV Gantano - Civitella'
57,8 Km.

60 KV Terni - Por di Spirito(a.R.)
73,5 Km.

60 KV Terni - Por di Spirito(a.W.)
73,5 Km.

60 KV Terni - Tiburtino (a.R.)
78 Km.

60 KV Terni - Tiburtino (a.W.)
78 Km.

60.KV Acquaria - Cascata
68 Km.

30 KV Liscia - Ancona
50 Km.

30 KV Ancona - Fabriano
61 Km.

30 KV Avezzano - Dusai
38 Km.

60 KV Pescara - Popoli
60 Km.

30 KV Pescara - Dusai

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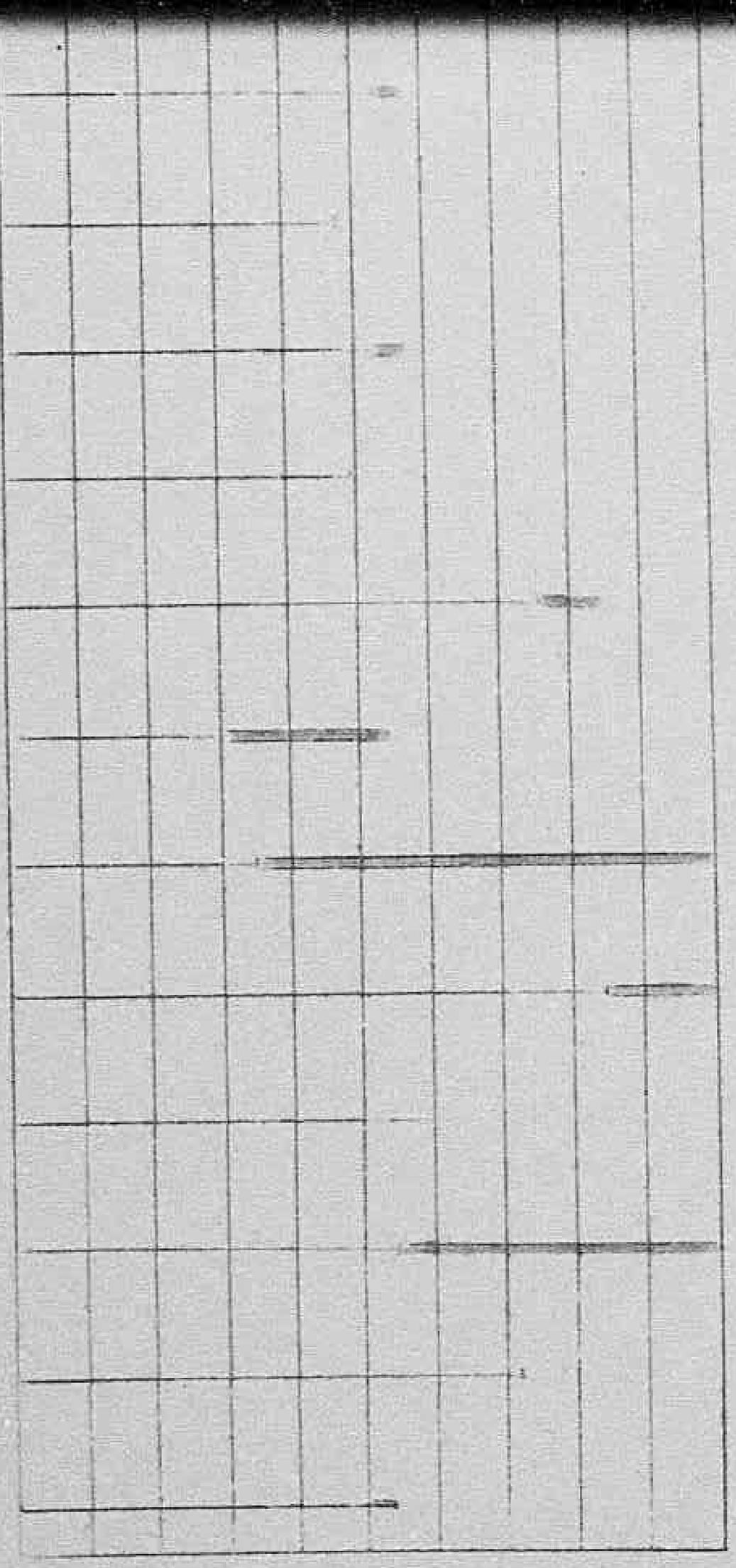

60 kV Terni - [illegible] Tivoli (n.R.)
[illegible]

60 kV Terni - Tor di Quinto (n.R.)
73,5 Km.

60 kV Terni - Tiburtino (n.R.)
78 Km.

60 kV Terni - Tiburtino (n.c.)
78 Km.

60 kV Acquaria - Cesano
68 Km.

30 kV Liscia - Ancona
50 Km.

30 kV Ancona - Fabriano
61 Km.

30 kV Avezzano - Tunnel
58 Km.

60 kV Foscara - Gualdo
60 Km.

30 kV Foscara - Tunnel
44 Km.

60 kV Fabriano - Perugia
53 Km.

30 kV Foscara - Gualdo
60 Km.

Note: Red shows restoration completed January

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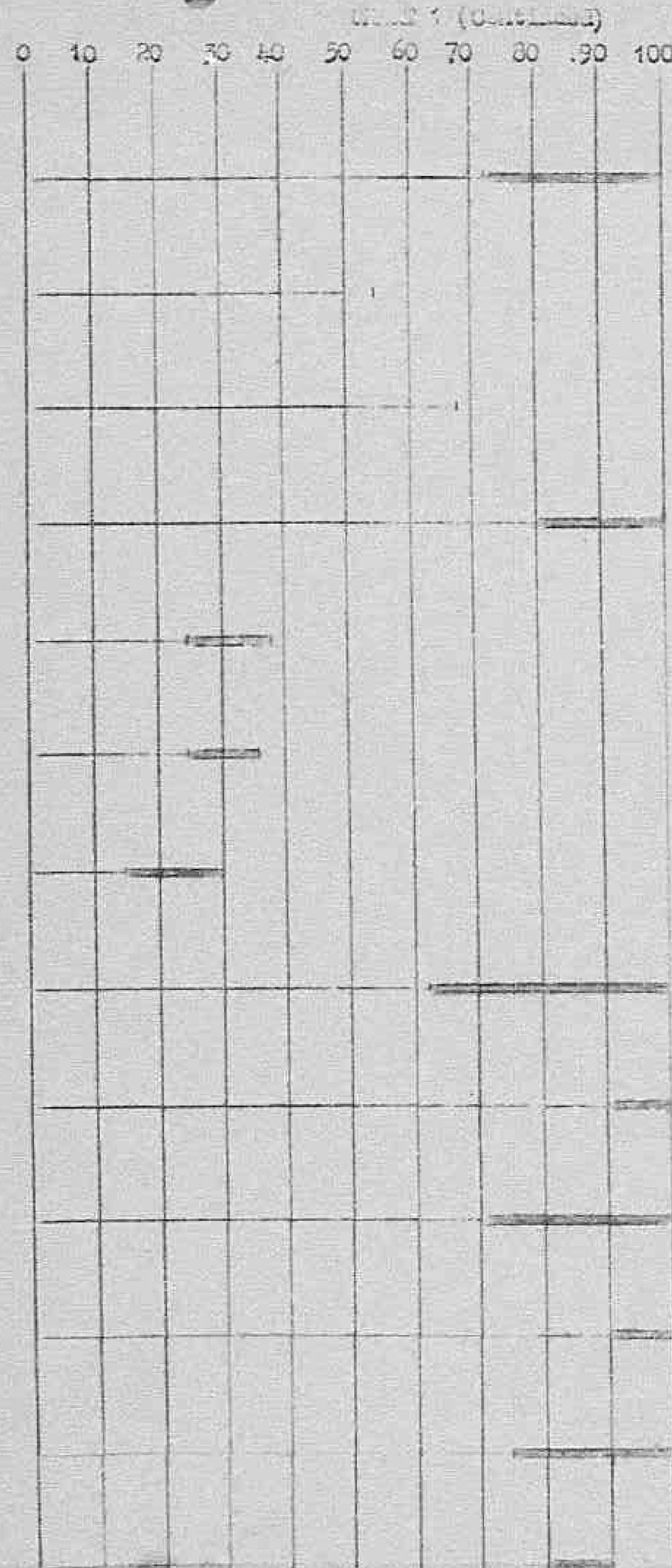


TOTAL LENGTH

30 kV Antrodoco - Rieti
65 Km.

30 kV Fodeno - P. Naiolo
38 Km.

30 kV Cupello - Atessa
40 Km.

30 kV Teramo - Montorio
12 Km.

30 kV Aquila - Montereale
30 Km.

30 kV Livorno - Pontedera
29 Km.

30 kV Pesela - Pontedera
27 Km.

60 kV P.Giovanni - Pianbino
41 Km.

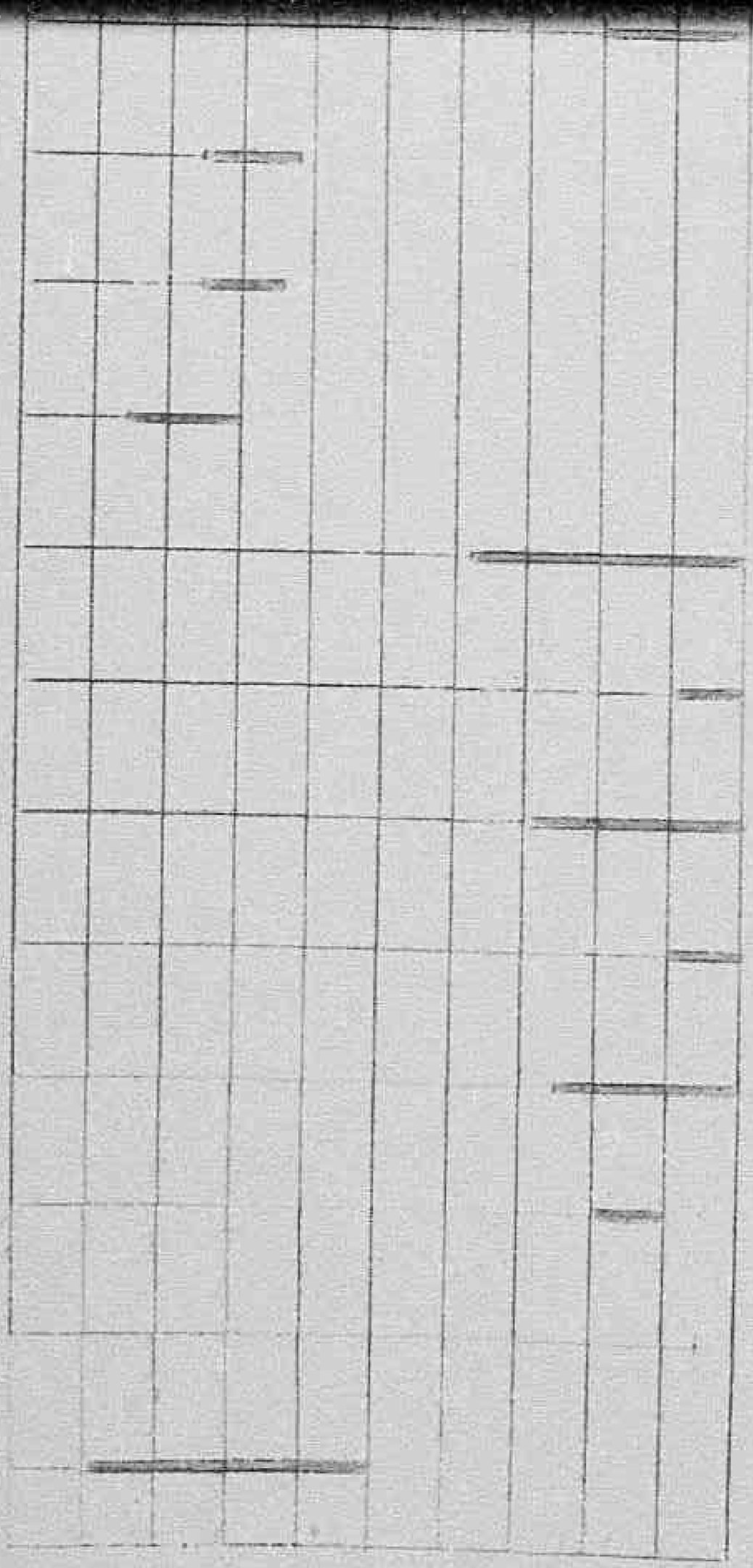
120 kV S.Romano - Tavarnuzze
39 Km.

120 kV P.dalla Rocca - S.Romano
51 Km.

120 kV Prato - Tavarnuzze
18 Km.

60 kV P.dalla Rocca - Livorno
66 Km.

30 kV Rifredi - Tavarnuzze
28 Km.



30 kV Perugia - Monteluro
12 Km.

30 kV Aquila - Monterpallo
30 Km.

30 kV Livorno - Pontedera
29 Km.

30 kV Pescia - Pontedera
27 Km.

60 kV S.Fiora - Piombino
41 Km.

120 kV S.Rosano - Tavarnuzze
39 Km.

120 kV P.della Rocca - S.Rosano
51 Km.

120 kV Prato - Tavarnuzze
18 Km.

60 kV P.della Rocca - Livorno
66 Km.

30 kV Riffredi - Tavarnuzze
28 Km.

120 kV Migliarino - P.di Cecina
56,4 Km.

150 kV Orte - Terni
28 Km.

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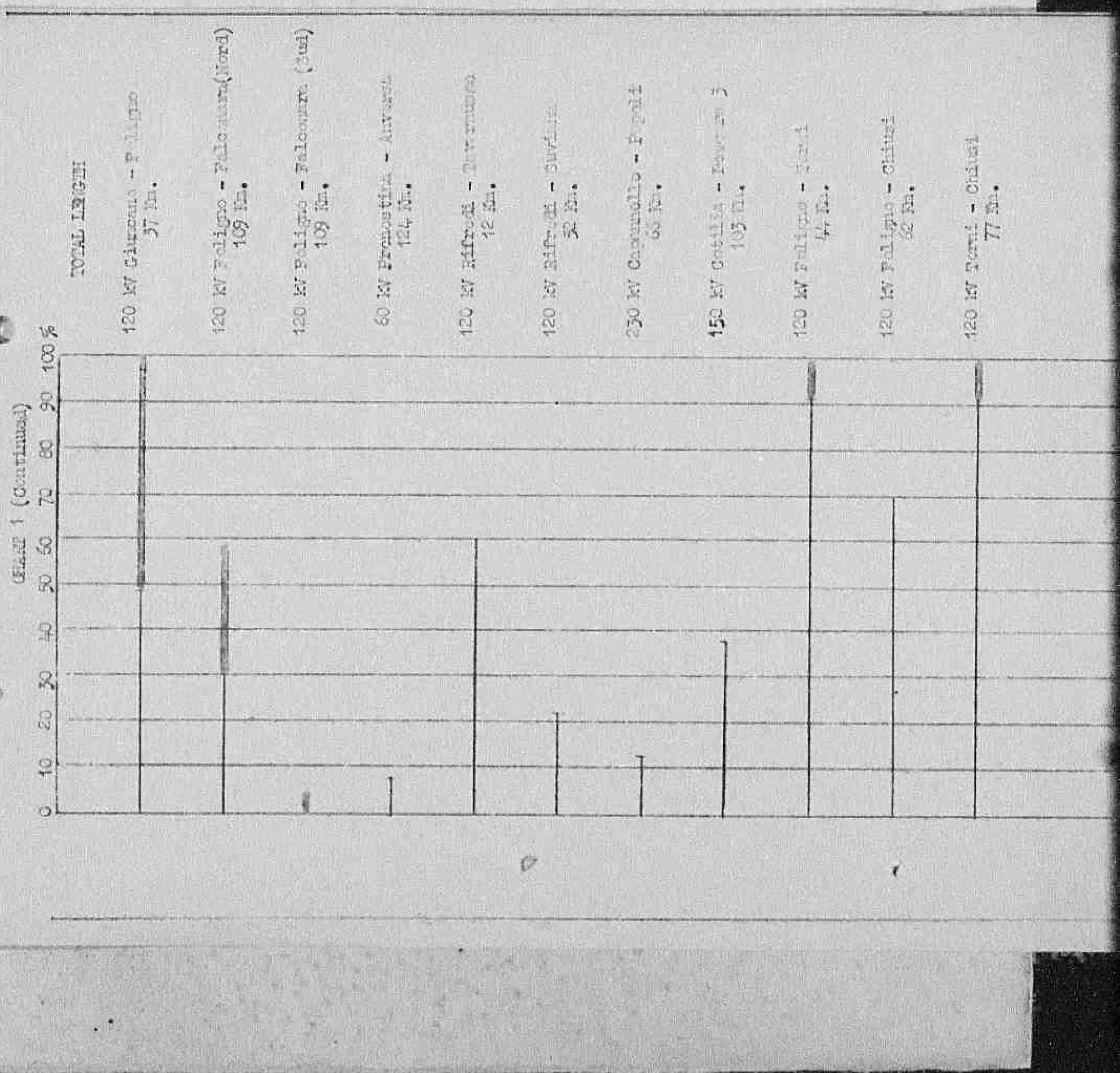

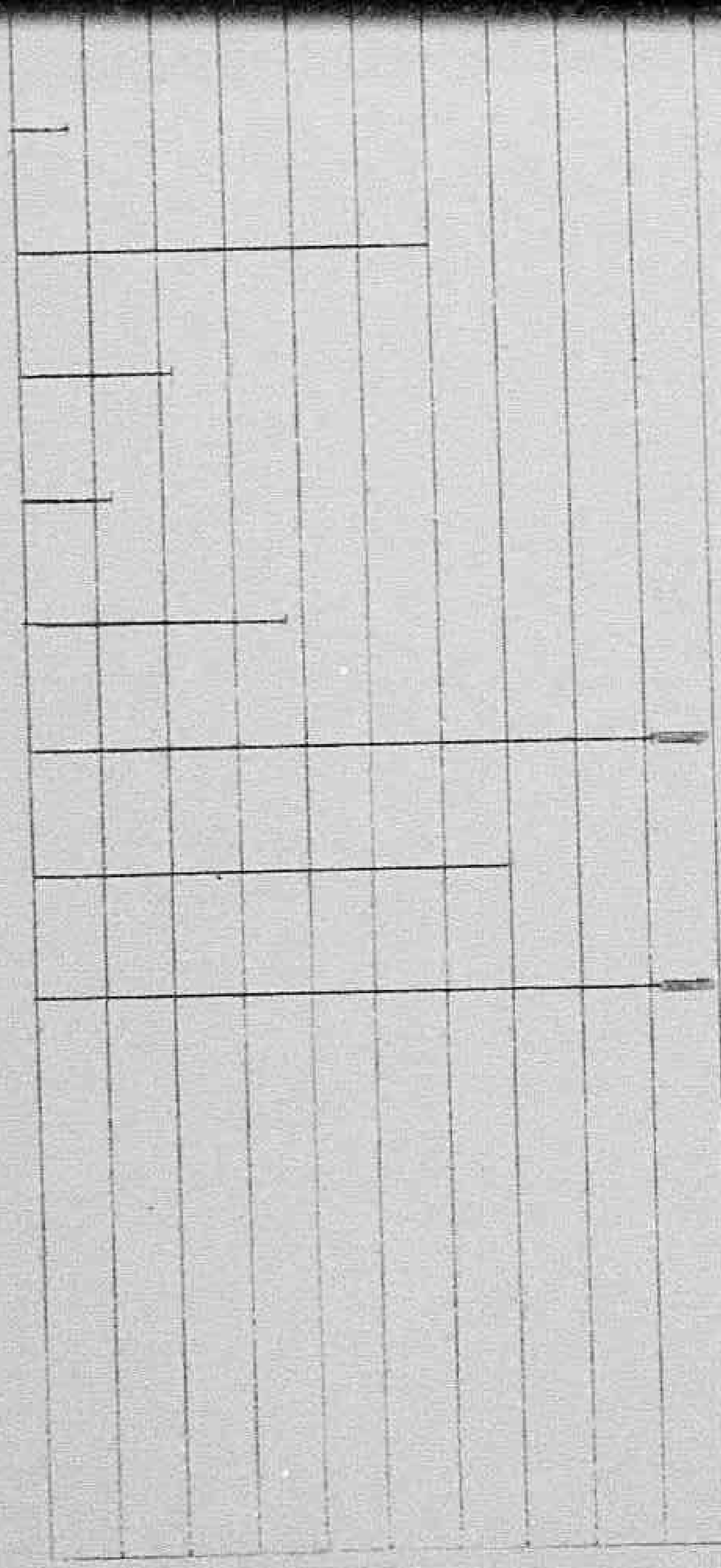

60 kV Fronsatina - Arvarsa
124 Km.

120 kV Riffredi - Tavernuzzo
12 Km.

120 kV Riffredi - Cuviano
52 Km.

230 kV Capriolo - Popoli
66 Km.

150 kV Ostilia - Pontelatone
103 Km.

120 kV Foligno - Terni
44 Km.

120 kV Foligno - Chiusi
62 Km.

120 kV Terni - Chiusi
77 Km.

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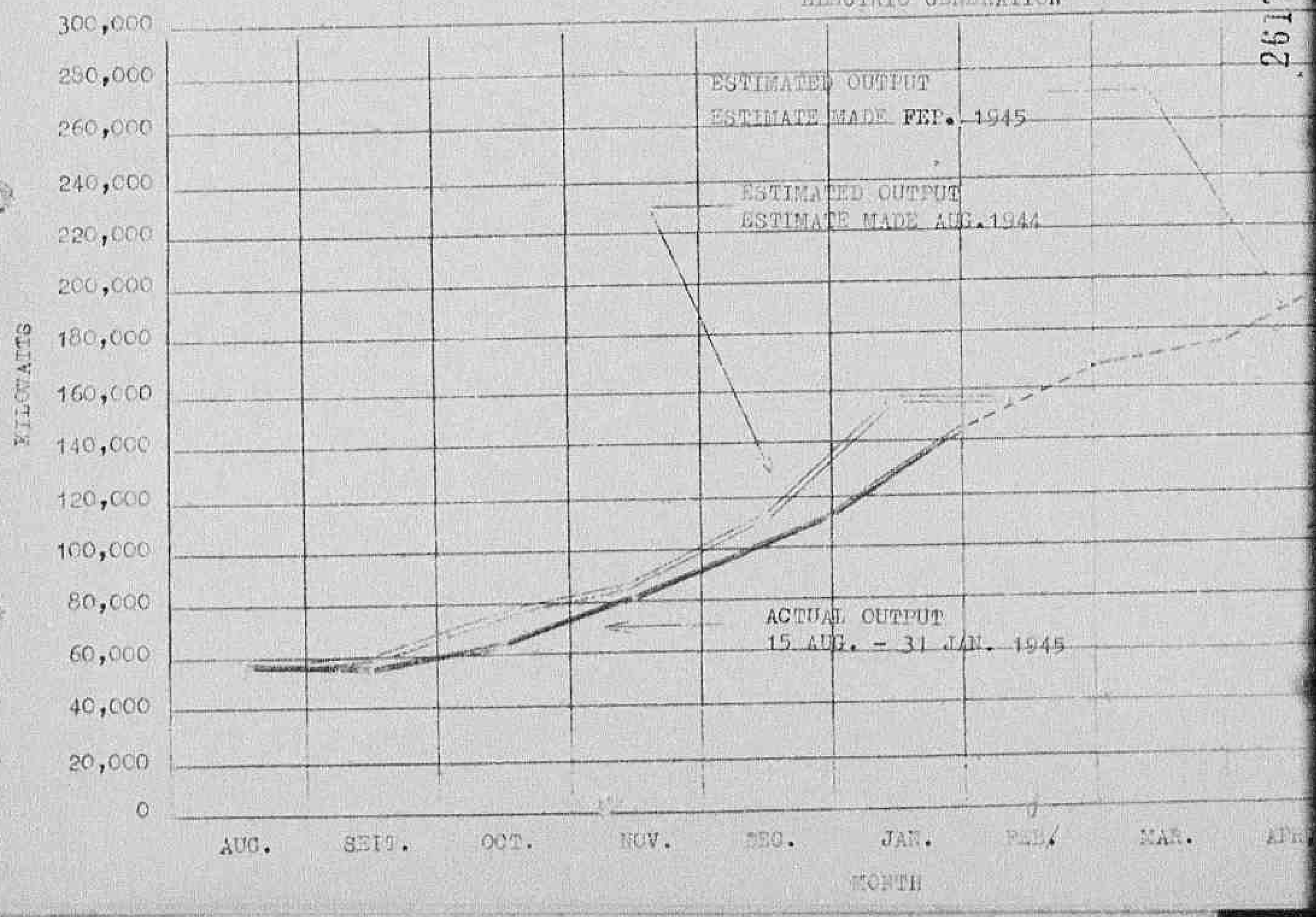
CENTRAL ITALY

CHART 2

ESTIMATED MONTHLY INCREASE
ELECTRIC GENERATION

2617



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C E N T R A L I T A L Y

CHART 2

ESTIMATED MONTHLY INCREASE
ELECTRIC GENERATION

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

MEDITERRANEAN ALLIED COMMISSION
APC 394
Public Works and Utilities Sub-Commission

ELECTRICAL DIVISION

RESTORATION OF ITALIAN ELECTRICAL PLANT AND TRANSMISSION SYSTEM

PROGRESS REPORT FOR MONTH OF DECEMBER 1944

W.M. LAPPER LT. COL.
Chief Electrical Division.

C E N T R A L I T A L Y

TABLE "A"

Installed generating capacity and present output of generating stations in operation on the grid system as of 31 December 1944.

Name of Station	Installed generating capacity KW	Present output capacity KW	REMARKS Reason for LOSS in output
ACQUCRIA	57,300	3,400	War damage.
ANCONA TH.	4,240	-	War damage.
ANGHIARI	1,308	-	War damage.
ANVERSA PRINCIPALE	30,000	-	War damage.
ARCI	8,320	4,100	Insufficient water.
ARLIA	3,500	-	Enemy hands.
AURELIA TH.	2,300	-	War damage.
AVENTINO	9,600	-	War damage.
B.STARDO TH.	15,000	-	War damage.
BOLOGNOLA	2,760	1,320	Insufficient water.
BORGO (PICRCO)	1,182	-	No report.
BUSSI SUL TIRINO II S.	1,500	-	No report.
CANILTRO	New const.	-	War damage. 12,960 KW
CANTERNO	New const.	-	Being completed 12,000 KW
CASSANI	1,048	360 @	Incomplete report.
CASTELLANO	6,720	-	War damage.
CASTELNUOVA	14,000	-	War damage.

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Name of Station	Installed generating capacity KW	Present output capacity KW	REMARKS Reason for LOSS in output
ACQUORIA	57,300	3,400	War damage.
ANCONA TH.	4,240	-	War damage.
ANGHIARI	1,305	-	War damage.
ANVERSA PRINCIPALE	30,000	-	War damage.
ARCI	8,320	4,100	Insufficient water.
ARLL.	3,500	-	Enemy hands.
AURELL. TH.	2,800	-	War damage.
AVENTINO	9,600	-	War damage.
BASTARDO TH.	15,000	-	War damage.
BLOCHCL.	2,760	1,320	Insufficient water.
BORGO (PIOMBINO)	1,182	-	No report.
BUSSI SUL TIRINO II S.	1,500	-	No report.
CANISTRO	New const.	-	War damage. 12,960 KW
CATTINO	New const.	-	Being completed 12,000 KW
CAVASSAI	1,048	360 @	Incomplete report.
CASTELLANO	6,720	-	War damage.
CASTELMADAMA	14,000	-	War damage.
CASTELNUOVO GARFAGNANA	7,200	-	Enemy hands. 2617
CASTELNUOVO SABBIONI TH.	20,400	-	War damage.
CASTELNUOVO V.D CECINA TH.	48,000	-	War damage.
CEPRANO	12,360	3,500 @	Unit transferred.

@ ESTIMATED

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TABLE "A" (Continued)

Name of Station	Installed generating capacity KW	Present output capacity KW	REMARKS Reason for LOSS in output
CERVARA	9,000	7,500	Aged machines.
COLLESTATTE	9,000	-	War damage.
COLLEMACCIA	9,120	5,900	Insufficient water.
COLPETTO (PONTE GOGI)	4,780	-	Enemy hands.
CORELLA	54,720	-	War damage.
DE CECCO	1,800	550 @	Incomplete repairs.
FAFA I	19,200	-	War damage.
FAFA II	9,000	4,000	War damage.
FORNACE LIRI (CERASOLI)	2,680	-	War damage.
FOLIGNO	4,800	-	War damage.
FURLO	2,820	-	War damage.
GALILEO	137,600	-	War damage.
GALILEO	22,600	-	War damage.
GIOIA SUPERIORE	14,000	-	War damage.
GIULIANO (LIRI)	7,240	-	War damage.
LUNA DEI PELIGNI	1,680	-	War damage.
LAURENTIO I P.	6,900	2,950	War damage.
LAURENTIO II TH.	72,000	-	War damage.
LIVORNO TH.	42,000	-	War damage.
LIVORNO (U.S. ARMY)	Portable	1,600 @	Portable equipment 4 x 400 KW units.

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COLLESMITE	9,000	-	War damage.
CONDACQUA	9,120	5,900	Insufficient water.
CORFINO (PONTE OSSI)	4,780	-	Heavy hauls.
CUCILIA	54,720	-	War damage.
DE CECCO	1,600	650 @	Incomplete repairs.
FAURA I	13,200	-	War damage.
FAURA II	9,000	4,000	War damage.
FONTANA LIRI (CERAMICHE)	2,080	-	War damage.
FONTECHIA	4,800	-	War damage.
FUCILO	2,820	-	War damage.
GAIELLO	137,600	-	War damage.
GALLINARO	22,000	-	War damage.
GROTTA SUPERIORE	14,000	-	War damage.
GUARDIAGRELE (LINEA)	7,240	-	War damage.
LAVA DEI PELIGNI	1,080	-	War damage.
LAVARELLO I R.	6,000	2,950	War damage.
LAVARELLO II R.	72,000	-	War damage.
LEVERANO R.	42,000	-	War damage.
LIVORNO (U.S. ARMY)	Portable	1,600 @	Portable equipment 4 x 400 KW units.
MADIA	6,000	-	War damage.
MARONE	17,900	-	War damage.
MOLINA ATERNO	1,050	-	War damage.
MONTE I R.	1,080	-	War damage.

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C E N T R A L I T A L Y

TABLE "A" (Continued)

Name of Station	Installed generating capacity KW	Present output capacity KW	REMARKS Reason for LOSS in output
MORINO II S.	1,666	-	War damage.
MORINO	12,800	-	War damage.
MOZZANO	2,850	-	War damage.
NERA MONTORO	19,600	15,250	Insufficient water.
NORCIA	66,000	-	War damage.
PACIFICO	12,800	-	War damage.
PAVIA	4,500	3,500	
PIANO	2,000	1,000	War damage.
PIEDIMONTE (CERVARO)	3,000	-	War damage.
PESCARA I	11,520	-	War damage.
PESCARA II	20,500	-	War damage.
PESCARA III	28,800	-	War damage.
PESCARA IV	4,000	-	War damage.
PETRELLA (FILSO)	1,920	1,900 @	
PIEVAROLI	33,600	1,000 @	War damage.
PIAN DELLA MORA	1,870	1,600	
PIANELLA	16,300	-	War damage.
PIEDIMONTE SU.	6,960	-	War damage.
PIOMBINO SU.	1,850	-	War damage.
POLVERIFICIO PONTE A SERRI			

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MORINO II S.	1,666	-	War damage.
MORINO	12,800	-	War damage.
MOZZANO	2,850	-	War damage.
NERA MONTORO	19,600	15,250	Insufficient data.
PATERNO	66,000	-	War damage.
PAVIA	12,800	-	War damage.
PIANO	4,500	3,500	
PIAGANELLI (SERVELI)	2,000	1,000	War damage.
PESCARA I	3,920	-	War damage.
PESCARA II	11,520	-	War damage.
PESCARA III	20,500	-	War damage.
PESCARA IV	28,800	-	War damage.
PETTORANO (GILLO)	4,000	-	War damage.
PIGNAROCCI	1,920	1,900 @	
PIANA DELLA ROCCA	33,600	1,000 @	War damage.
PIANELLA	1,870	1,000	War damage.
PIETRAFITTA TR.	16,300	-	War damage.
PIOMBINO TR.	6,960	-	War damage.
POLVERIFICIO PONTE LIRI	1,350	-	War damage.
PONTELLI (S.GIOVANNI INC.)	9,000	-	War damage.
PORTO III S. (SUBSTATION)	7,100	-	War damage.
POZZAGLIO TR.	4,480	-	War damage.
PRATICO	1,175	-	War damage.
PUCE	9,100	-	War damage.
PUTIGNANO	Not const.	-	Proposed 120,000 KW

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C E N T R A L I T A L Y

TABLE "A" (Continued)

Name of Station	Installed generating capacity KW	Present output capacity KW	REMARKS Reason for LOSS in output
RIETI TH. (Non Grid)	2,000	840	Coal Supply & Repairs
RIFREDI TH.	7,000	-	War damage.
RICORDI O (FIRENZE) (Non Grid)	3,400	1,400 @	War damage.
ROCCHETTA	3,400	-	Enemy hands.
ROMA TH.	51,250	29,000	Maint. & Repairs.
ROSIGNANO TH.	9,344	3,000 @	War damage.
SALISANO	16,000	-	War damage.
S.ELPIA	1,360	160	War damage.
S.GIACOMO	New const.	-	Proposed 150,000 KW
S.SAVINO (SUP)	1,408	400	
SONNELLE	8,000	4,000	Insufficient water.
SYLVIA	3,360	-	War damage.
SULMONA	1,000	-	Enemy hands.
SUNICO	1,200	-	Enemy hands,
SPOLETO	12,600	-	War damage.
STOLANO (Non Grid)	2,450	200	
SUNI.OO	7,760	3,200	War damage.
TERNI	30,000	-	Enemy hands.
TIVOLI JUNC	1,100	900	
TIVOLI MUNIC.	2,000	-	War damage.
TORI PLANT	4,500	-	Generator burned out.
TORRI STEEL (Non Grid)	1,464	476	

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HIRRI TH. (Non Gerld)	2,000	-	
RIPRODI TH.	7,000	-	War damage.
RICCDI O (FI RE O) (Non Gerld)	3,400	1,400 @	War damage.
ROCCHETTA	3,400	-	Enemy hands.
ROMA TH.	51,250	29,000	Maint. & Repairs.
ROSICLAND TH.	9,344	3,000 @	War damage.
SALISANO	16,000	-	War damage.
S.ELIA	1,360	160	War damage.
S.GIACOMO	New const.	-	Proposed 150,400 KW
S.SAVINO (SEE)	1,408	440	
SCANZANO	8,000	4,000	Insufficient water.
SELVINA	3,360	-	War damage.
SILLANO	1,660	-	Enemy hands.
SINNICO	1,200	-	Enemy hands,
SPERLINO	12,660	-	War damage.
STRONCONE (Non Gerld)	2,450	200	
SULMONA	7,760	3,200	War damage.
TARANTA	30,000	-	Enemy hands.
TERNI (SEE)	1,100	900	
TERNI MUNIC.	2,000	-	War damage.
TERNI PLATE	1,900	-	Generator burned out.
TERNI STEEL (Non Gerld)	1,464	476	2612
VILLAVALLELO	15,520	-	War damage.
VOLTA	2,040	2,200	
VULCI	3,520	1,200	

@ ESTIMATED - 5 -

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TABLE "A" (Continued)

Name of Station	Installed generating capacity KW	Present output capacity KW	REMARKS Reason for LOSS in output
VECCA I	1,775	-	War damage.
VECCA II	1,200	-	War damage.
SMALL PLANTS	61,695	7,566	42 Plants operating.
MILESI			
CAPO VOLTURNO	20,000	-	War damage.
LETI (PR.T. SAVID.)	9,400	-	War damage.
PONTEROTTO	2,240	-	War damage.
S.MASSIMO	3,000	-	War damage.
S.SPIRITO	1,250	-	War damage.
SOLLEA	1,070	-	War damage.
AILSOUR.	1,000	-	War damage.
TOTAL	1,382,725	114,652	

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ZECCA II	1,200	-	
STALL PLANTS	61,695	7,566	42 Plants operating.
MOLISA			
CAMPO VOLTURNO	20,000	-	War damage.
LETE (PRES. SANTI)	9,400	-	War damage.
PONTEROTTO	2,240	-	War damage.
S.MASSIMO	5,000	-	War damage.
S.SPIRITO	1,250	-	War damage.
SOLOPA	1,070	-	War damage.
VILLASCIPA	1,000	-	War damage.
TOTAL	1,382,725	114,652	

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C E N T R A L I T A L Y

TABLE "B"

Schedule of Generator Capacity in service and being repaired 31 December 1944

Name of Station	Plant in operation 31 Dec. 44	YEAR 1945					
		31 Jan.	28 Feb.	31 March	30 April	31 May	30 June
ACQUORIA	3,500				4,000		
ARCI	8,320						
BOLOGNOLA	2,760						
CARASAI	728						
CERANO	3,500				5,500		
CERVARA	9,000						
COMUNACQUA	9,120						
DE CECCO	600						
FAFF. 2	4,500						
LARDERELLO 1	3,900	700					
LECHUSEN (U.S.A.)	1,600						
NERA MONTORO	19,600						
PERAGO	4,500						
PELAGALLI	1,000						
PIANARUCCI	1,980						
PIAN DELLA ROCCA	14,000		11,000				
PIANICELLA	1,870						
RIETI FE.	1,000						
RIGOLINO	1,400						
ROMA THERMAL	33,000						
ROSIGNANO	3,000	3,000					
S.ELENA	400						
S.SAVINO (SRE)	800						

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BOLOGNOLA	2,760							
CARSOLI	725							
CERRANO	3,500				5,500			
CERVARA	9,000							
CERVARA	9,120							
DE CECCO	600							
FANFA 2	4,500							
LARDARELLO 1	3,900	700						
LECHORN (U.S.A.)	1,600							
MERA MONTORO	19,600							
PERUGIA	4,500							
PELAGALLI	1,000							
PIANARUCCI	1,920							
PIAN DELLA ROCCA	14,000		11,000					
PIANICELLA	1,670							
RIETI TH.	1,000							
RIORDINO	1,400							
ROMI THERMAL	53,000							
ROSIGNANO	3,000	3,000						
S.ELENA	400							
S.SAVINO (SRL)	800							
SCALELLE	8,000		4,000					
SPOLETO	3,500							
SUBLACO	3,880							
TERNI JUTE	1,100							
SUB TOTALS	153,348	3,700	7,000	-	9,500	-	-	

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CENTRAL ITALY

TABLE "B" (Continued)

Name of Station	Plant in operation 31 Dec. 44	YEAR 1945					
		31 Jan.	28 Feb.	31 March	30 April	31 May	30 June
Brought Forward	153,548	5,700	7,000	-	9,500	-	-
TERNI STEEL	600						
VESTA	2,640						
VULCI	3,520						
SMALL PLANTS	10,745						
ADDOLORATA			350	210			
AVEZZANO		4,000					
BAGNI DI TIVOLI				250			
CANTERNO			10,000				
CASTELLANO						2,250	
CASTELNUOVO COCCIA				12,000			
CASTELNUOVO						6,000	
GALLENO		34,400			34,400	34,400	
GROSA 1					4,000		
LAMA DEI PELIGNI		600					
LIRI		1,500					
MANDELA						3,000	
MOLINI ATERNO					500		
NORCINE					140		
PETTORANO		300	300				
S.ANTONIO		250					
SELVENA		1,575					

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VULCI	3,520						
SMALL PLANTS	10,745						
ADDOLORATA			350	210			
AVENTINO		4,000					
BAGNI DI TIVOLI				250			
CANTERINO			10,000				
CASTELLACCIO							2,250
CASTELNUOVO CECCHINA				12,000			
CASTELSARACINA							6,000
GALLETO		34,400			34,400		34,400
GENOSA 1					4,000		
LAMA DEI PELIGNI		800					
LIDA		1,500					
MANDELA							3,000
MOLINI ATESSO					500		
MORGONE					140		
PETTORANO		300	300				
S.ANTONIO		250					
SELVENA		1,575					
TARQUINIA		150					
VENAFRELLO							3,000
Monthly Increase		43,675	17,650	12,460	48,540	-	48,650
TOTAL	170,851	214,526	232,176	244,636	293,176	293,176	341,826

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SOUTHERN ITALY

TABLE "O"

Installed generating capacity and present output of generating stations in operation as of 31 December 1944.

Name of Station.	Installed generating capacity Kw	Present output capacity Kw	Remarks Reason for LOSS in output
ANIC TH.	3,000	-	No report.
CALUSIA	35,200	24,500	Insufficient water.
CAPUANO TH.	45,000	30,000	-
CARGRE	1,050	-	No report.
CELESTE	1,410	-	No report.
DOMaldara TH.	5,820	3,000	-
FIUMI DI Nord	1,080	-	No report.
FRATTI TH.	1,400	-	No report.
GaleTHO	1,000	-	No report.
LUCERA TH.	1,080	-	No report.
MATESE 1	10,500	5,400	Insufficient water.
MATESE 2	11,200	-	war damage.
MaMaRIO (Fab/Ind-Use)	1,000	-	No report.
MERSURA	1,300	-	No report.
MURO LUCANO	1,680	-	No report.
NAPOLI STA TH.	1,800	-	No report.
ORICHELLA	54,000	36,500	Damaged unit.
S.GIOVANNI [illegible] TH.	1,800	-	No report.

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Name of Station	Installed Generating Capacity KW	Present Output Capacity KW	Reason for LOSS in output
ANIC TH.	3,000	-	No report.
CALABIA	25,200	24,500	Insufficient water.
CAPUANO TH.	45,000	30,000	-
CARDONE	1,050	-	No report.
CELESTE	1,410	-	No report.
DOGaliano TH.	8,820	3,000	-
FIRES DI VELLO	1,080	-	No report.
FRATTI TH.	1,400	-	No report.
GALATRO	1,000	-	No report.
LUCERA TH.	1,080	-	No report.
MATERA 1	10,500	5,400	Insufficient water.
MATERA 2	11,200	-	war damage.
MATERA (FABRICA)	1,800	-	No report.
MIRONE	1,306	-	No report.
MURO LUCANO	1,680	-	No report.
NAPOLI STA TH.	1,800	-	No report.
ORICHELLA	54,000	36,500	Damaged unit.
S.GIOVANNI A TEDUCCIO TH.	1,800	-	No report.
S.MARCO	17,250	-	war damage.
SOLURI - CORACE	1,408	-	No report.
SUIC (GARIGLIANO)	9,225	-	War damage.

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SOUTHERN ITALY

TABLE "C" (Continued)

Name of Station	Installed generating capacity KW	Present output capacity KW	REMARKS Reason for LOSS in output
TARANTO 1	9,600	11,650	-
TARANTO 2	2,000		
TARANTO TH.	4,385	-	No report.
TERRA GRANDE	72,800	79,000	-
TUSCANIC 2 (EL NANO)	9,600	7,950	Insufficient water.
74 SMALL PLANTS	23,903	-	No report.
TOTALS	332,983	198,000	

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TANGIB 2	2,000		
TANANTO TH.	4,385	-	No report.
TEMPA GRANDE	72,800	79,000	-
TUSCANO 2 (CLAVAC)	9,680	7,950	Insufficient water.
71 SMALL PLANTS	23,303	-	No report.
TOTALS	332,983	198,000	

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PROGRESS OF RESTORATION OF ELECTRIC TRANSMISSION LINES

CENTRAL ITALY

CHART 1

	PERCENTAGE COMPLETED 0 10 20 30 40 50 60 70 80 90 100	TOTAL LENGTH
150 KV	Gulletto - Laurentina	94 Km.
60 KV	Terni - Tor di Quinto (A.R.)	73,5 Km.
60 KV	Terni - Tor di Quinto (A.V.)	73,5 Km.
60 KV	Terni - Tiburtino (B.R.)	78 Km.
60 KV	Terni - Tiburtino (B.V.)	78 Km.
60 KV	Acquaria - Cecliano	66 Km.
60 KV	Cecchino - Centano	16,2 Km.
60 KV	C.Vecchia - C.Castellano	50 Km.
230 KV	Capanelle - Popoli	66 Km.
150 KV	Latina - Pescara	103 Km.
120 KV	Foligno - Terni	14 Km.
120 KV	Foligno - Chiusi	62 Km.
120 KV	Terni - Chiusi	77 Km.
30 KV	Fiscia - Ancona	30 Km.
30 KV	Ancona - Fabriano	61 Km.
30 KV	[illegible]	58 Km.

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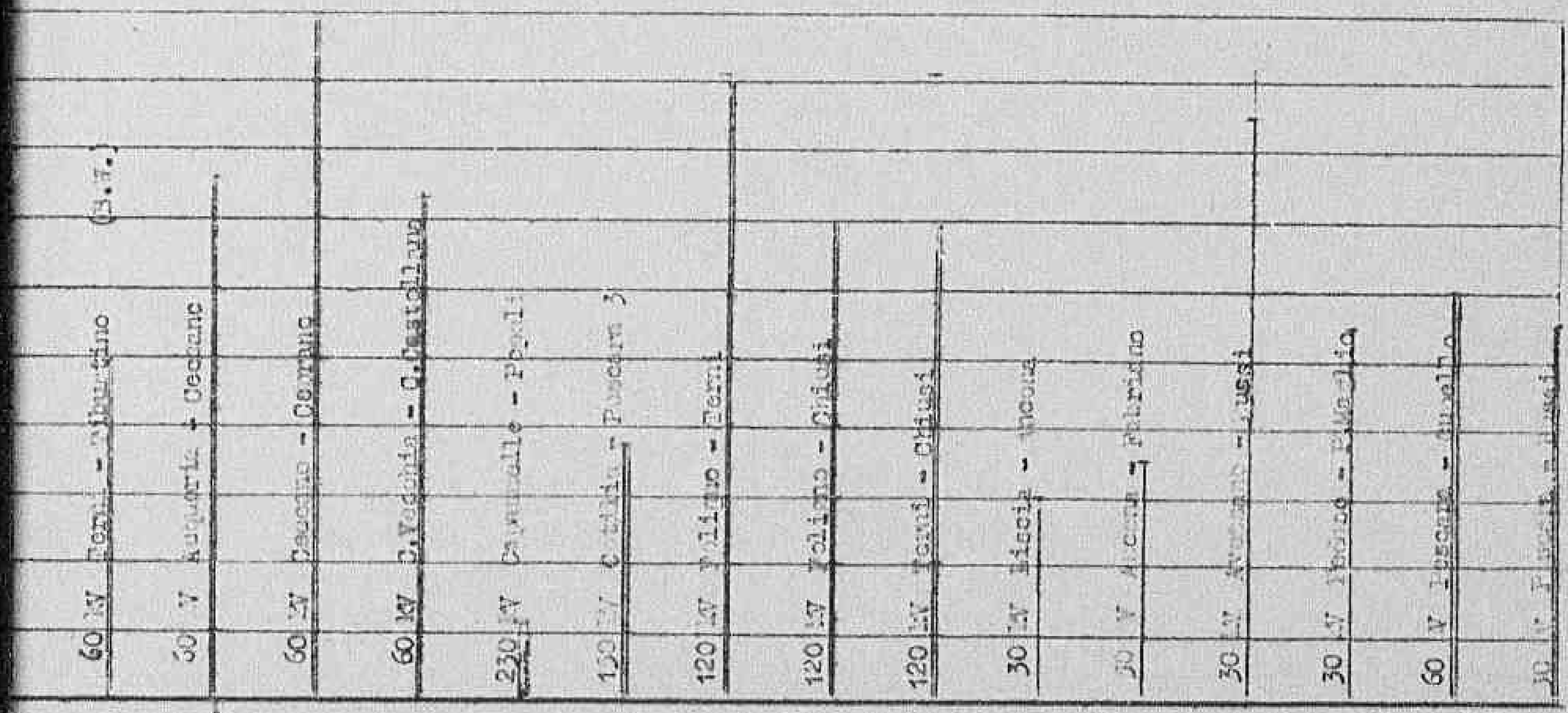
CENTRAL ITALY

CHART 1

PROGRESS OF RESTORATION OF ELECTRIC TRANSMISSION LINES

2607



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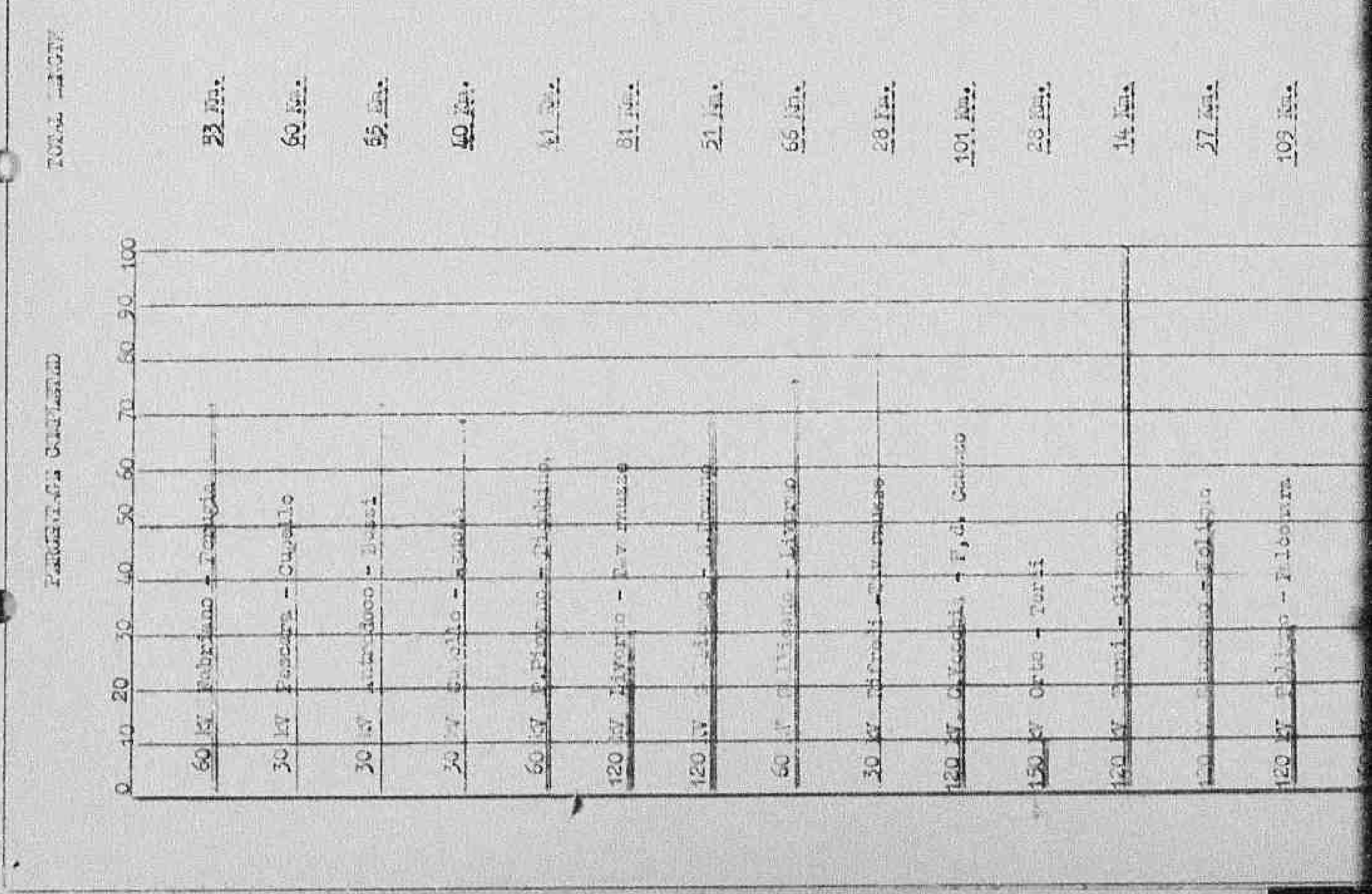
CENTRAL ITALY

CHART 1 (continued)

PROGRESS OF RESTORATION OF ELECTRIC TRANSMISSION LINES

2606



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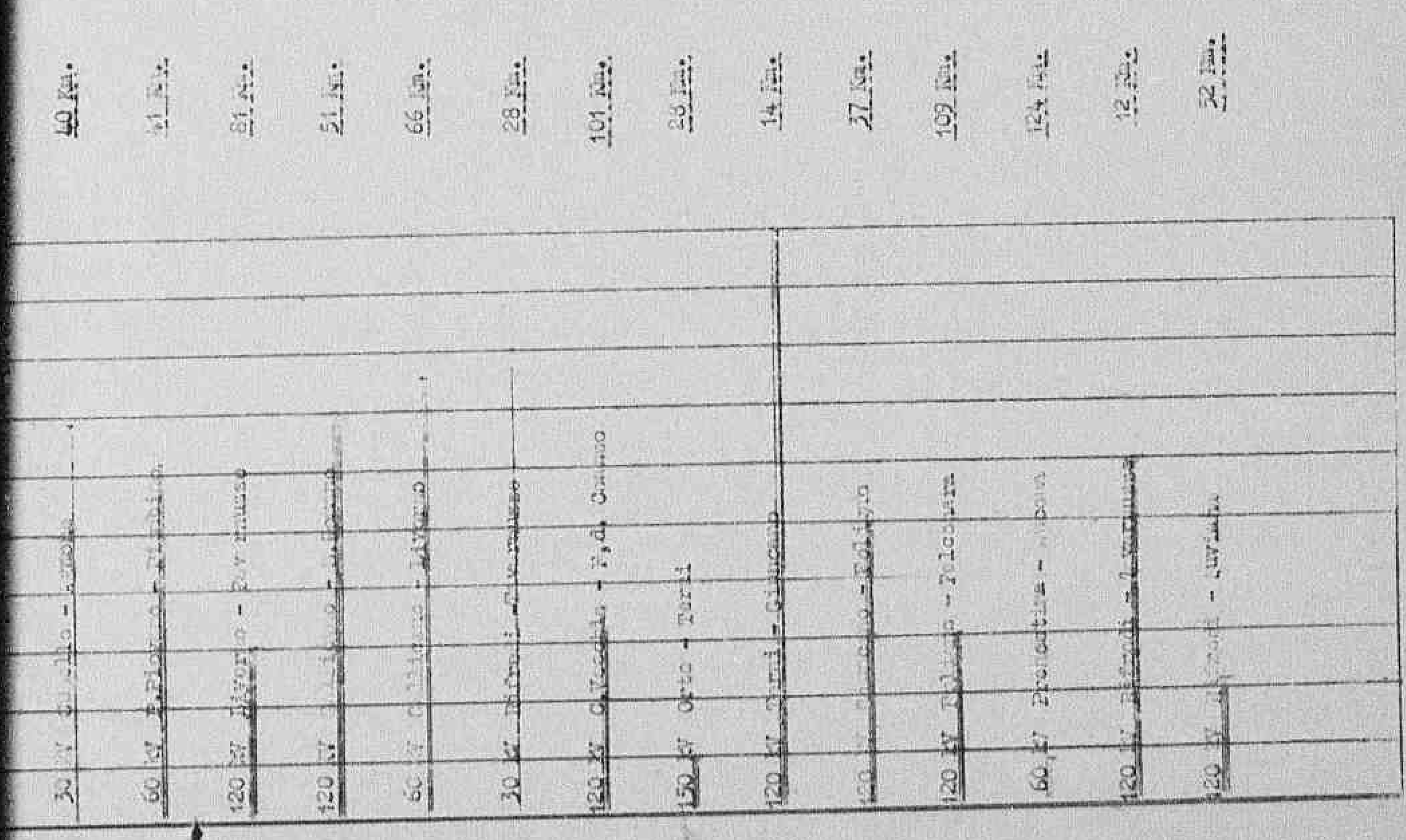
CENTRAL ITALY

CHART 1 (continued)

PROGRESS OF RESTORATION OF ELECTRIC TRANSMISSION LINES

2605



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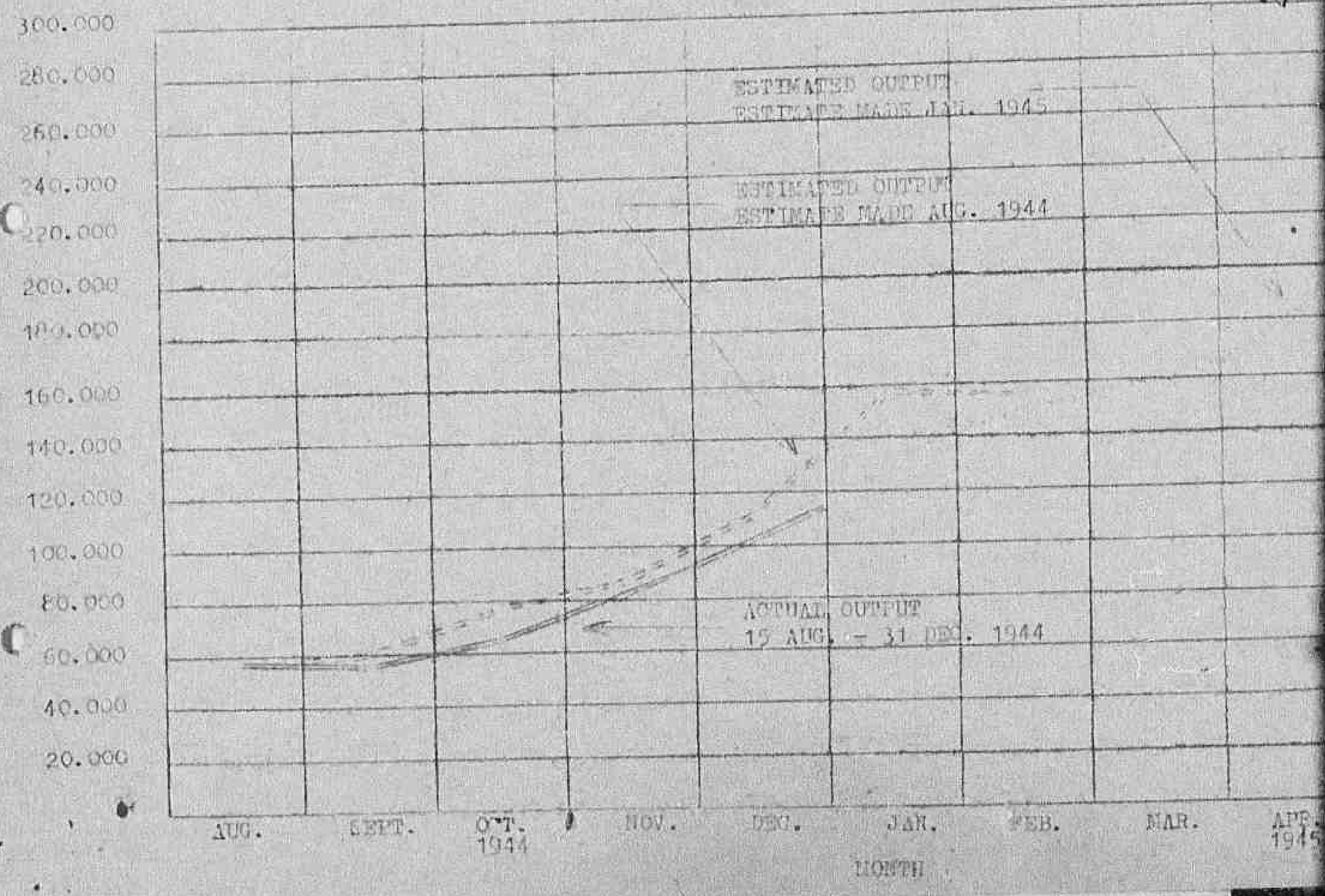
CENTRAL ITALY

CHART 2

ESTIMATED MONTHLY INCREASE
ELECTRIC GENERATION

2605



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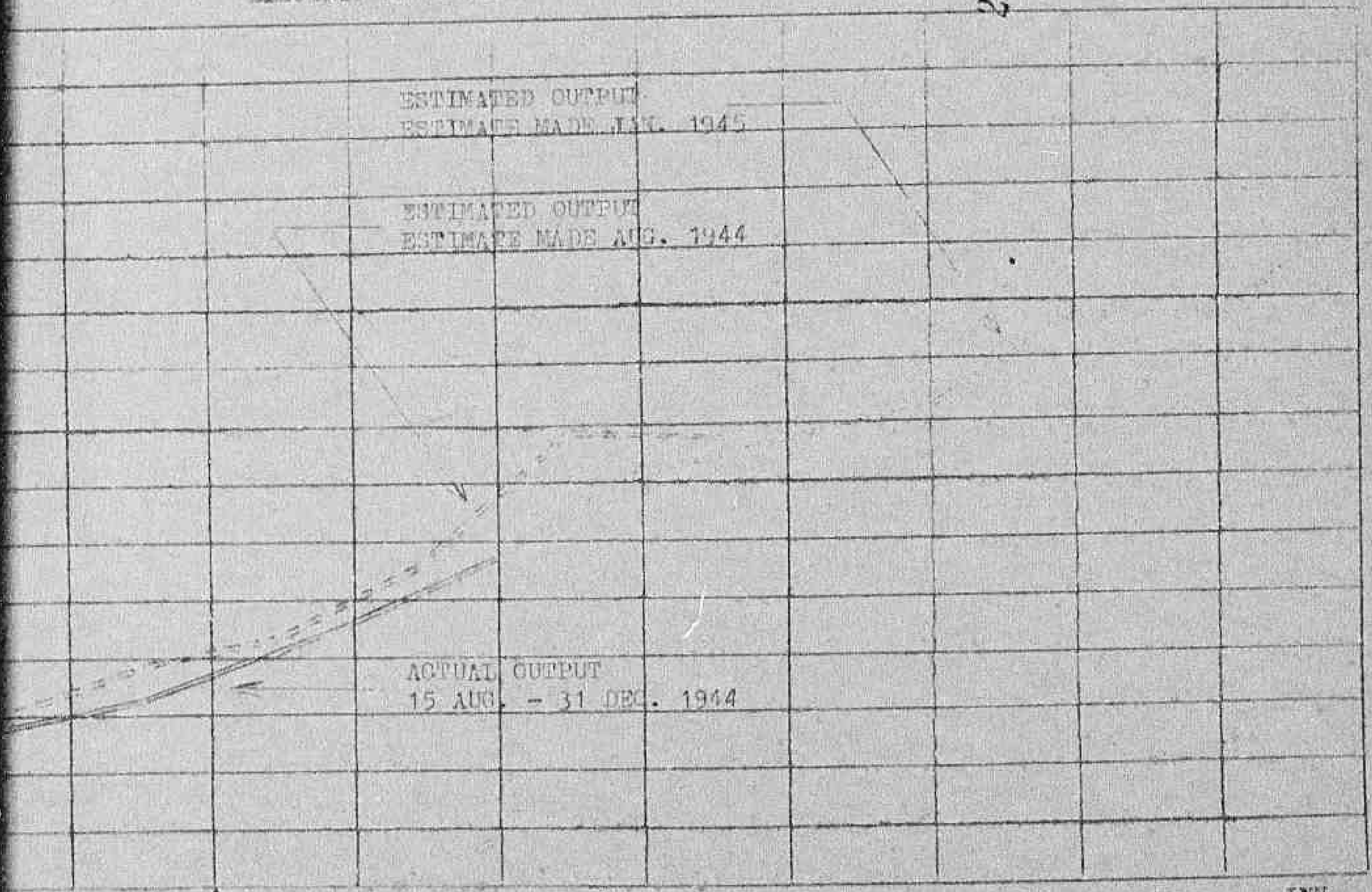
C E N T R A L I T A L Y

CHART 2

ESTIMATED MONTHLY INCREASE
ELECTRIC GENERATION

2605



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

ELECTRICAL DIVISION

RESTORATION OF ITALIAN ELECTRICAL PLANT AND TRANSMISSION SYSTEM

PROGRESS REPORT FOR MONTH OF DECEMBER 1944

W.M. LAPTER LT. COL.
Chief Electrical Division.

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

C E N T R A L I T A L Y

TABLE "A"

Installed generating capacity and present output of generating stations in operation on the grid system as of 31 December 1944.

Name of station	Installed generating capacity KW	Present output capacity KW	REMARKS Reason for LOSS in output
ACQUORIA	57,300	3,400	War damage.
ANCONA TH.	4,240	-	War damage.
ANGHIARI	1,308	-	War damage.
ANVERSA PRINCIPALE	30,000	-	War damage.
ARCI	8,320	4,100	Insufficient water.
ARLI.	3,500	-	Enemy hands.
AURELL TH.	2,300	-	War damage.
AVENTINO	9,600	-	War damage.
BASTARDO TH.	15,000	-	War damage.
BOLOGNOL.	2,760	1,320	Insufficient water.
BORGO (PIOR.OO)	1,182	-	No report.
BUSSI SUL TIRINO II S.	1,500	-	No report.
CANESTRO	New const.	-	War damage. 12,960 KW
CANTERNO	New const.	-	Being completed 12,000 KW
CARUSSI	1,048	360 @	Incomplete report. 2603
CASTELLANO	6,720	-	War damage.
			War damage.

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Name of Station	Installed generating capacity KW	Present output capacity KW	REMARKS Reason for LOSS in output
ACQUORIA	57,300	3,400	War damage.
ANCONA TH.	4,240	-	War damage.
ANGHIARI	1,308	-	War damage.
ANVERSA PRINCIPALE	30,000	-	War damage.
ARCI	8,320	4,100	Insufficient water.
ARELA	3,500	-	Enemy hands.
AURELIA TH.	2,800	-	War damage.
AVENTINO	9,600	-	War damage.
BASTARDO TH.	15,000	-	War damage.
BOLOGNOLA	2,760	1,320	Insufficient water.
BORGO (PIORICO)	1,182	-	No report.
BUSSI SUL TIRINO II S.	1,500	-	No report.
CANISTRO	New const.	-	War damage. 12,960 KW
CASTRUTO	New const.	-	Being completed 12,000 KW
CASSIA	1,048	360 @	Incomplete report. 2603
CASTELLINO	6,720	-	War damage.
CASTELNUOVO DI M.	14,000	-	War damage.
CASTELNUOVO GARFAGNANA	7,200	-	Enemy hands.
CASTELNUOVO GARIBONI TH.	20,460	-	War damage.
CASTELNUOVO V.C. CECIN.. TH.	48,000	-	War damage.
CENTRINO	12,360	5,300 @	Unit transferred.

@ ESTIMATED - 2 -

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TABLE "A" (Continued)

Name of Station	Installed generating capacity KW	Present output capacity KW	REMARKS Reason for LOSS in output
CERVARA	9,000	7,300	Aged machines.
COLLESALVETTI	9,000	-	War damage.
CORNIACCHIA	9,120	5,000	Insufficient water.
CORTINO (PONTE CORSI)	4,780	-	Enemy hands.
CORTILIA	54,720	-	War damage.
DE CROCE	1,000	550 @	Incomplete repair.
FADA I	10,200	-	War damage.
FADA II	9,000	4,000	War damage.
FOSSANO LTDA (CERASELI)	2,880	-	War damage.
FOSSOLTA	4,800	-	War damage.
FUCILO	2,820	-	War damage.
GALILEO	137,600	-	War damage.
GALLICANO	22,000	-	War damage.
GORGA SUPERIORE	14,000	-	War damage.
GRADDITTO (LUCA)	7,240	-	War damage.
LEVA DEI PELATI	1,680	-	War damage.
LARDERELLO I A.	6,000	3,950	War damage.
LARDERELLO II A.	72,000	-	War damage.
LIVORNO A.	42,000	-	War damage.
[illegible] (Port.)	Portable	1,600 @	Portable equipment

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CERVARA	9,000	7,500	Aged machines.
CHELESMILER	9,000	-	War damage.
CHIAVACUA	9,120	5,900	Insufficient water.
CONFINO (PONTE CASI)	4,700	-	Heavy bombs.
CORTILIA	54,720	-	War damage.
DE CHICCO	1,800	550 @	Incomplete records.
FABRA I	19,200	-	War damage.
FABRA II	9,000	4,000	War damage.
FONTANA LIRI (CERVICELLI)	2,800	-	War damage.
FO [illegible]	4,800	-	War damage.
FUCILO	2,820	-	War damage.
GALLICO	137,600	-	War damage.
GALLINARO	22,000	-	War damage.
GIOIA SUPERIORE	14,000	-	War damage.
GIUDICATTO (LIRI)	7,240	-	War damage.
LANA DEI PELLI I	1,680	-	War damage.
LARINELLO I [illegible]	6,900	2,900	War damage.
LARINELLO II [illegible]	72,000	-	War damage.
LIVORNO VE.	42,000	-	War damage.
LIVORNO (U.S. ARMY)	Portable	1,600 @	Portable equipment 4 x 400 KW units.
MANDELA	6,000	-	War damage.
MARMORE	17,900	-	War damage.
MOLINA ANTICO	1,050	-	War damage.
MORICONE	1,080	-	War damage.

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C E N T R A L I T A L Y

TABLE "A" (Continued)

Name of Station	Installed generating capacity KW	Present output capacity KW	REMARKS Reason for LOSS in output
MORINO II S.	1,666	-	War damage.
MORINO	12,800	-	War damage.
MOZZAGO	2,850	-	War damage.
NERA MONTORO	19,600	15,250	Insufficient water.
PADIGLIONE	66,000	-	War damage.
PAVIA	12,800	-	War damage.
PIANO	4,500	3,500	
PIAZZOLLI (SERTINI)	2,000	1,000	War damage.
PISCARA I	9,920	-	War damage.
PISCARA II	11,520	-	War damage.
PISCARA III	20,500	-	War damage.
PISCARA IV	28,800	-	War damage.
PONTORMO (CELIO)	4,000	-	War damage.
PRATAMAGNI	1,920	1,900 @	
PRATOVECCHIO	53,600	1,000 @	War damage.
PRATOVECCHIA	1,870	1,000	War damage.
PRETROPIETA TR.	16,300	-	War damage.
PRIOLO TR.	6,960	-	War damage.
POLVERIFICIO NOBEL LIRI	1,350	-	War damage.
PONTECORVO (S.GIOVANNI INC.)	9,000	-	War damage.

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MORINO II S.	1,666	-	War damage.
MORINO	12,800	-	War damage.
MORIANO	2,850	-	War damage.
NURA MONTORO	19,600	15,250	Insufficient water.
PESCINO	66,000	-	War damage.
PAVIA	12,800	-	War damage.
PEDACO	4,500	3,500	
PELAGALLI (SICILY)	2,000	1,000	War damage.
PESCARA I	9,920	-	War damage.
PESCARA II	11,520	-	War damage.
PESCARA III	20,500	-	War damage.
PESCARA IV	25,800	-	War damage.
PETRORINO (SICILY)	4,000	-	War damage.
PIACARUSSI	1,020	1,900 @	
PIAZZA DELLA ROCCA	33,600	1,000 @	War damage.
PIAZZOLLA	1,870	1,000	[illegible]
PIEDMONTE TI.	16,300	-	War damage.
PIOMBINO TI.	6,950	-	War damage.
POLVERIFICIO PONTE A LIRI	1,850	-	War damage.
PONTECORVO (S.GIOVANNI ECC.)	9,000	-	War damage.
PORTICO III S. (GENERATION)	7,100	-	War damage.
POSTIGLIONE TI.	4,400	-	War damage.
PRATICO	1,175	-	War damage.
PRATI	9,100	-	War damage.
PRATOVECCHIA	Ter const.	-	Proposed 120,000 KW

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C E N T R A L I T A L Y

TABLE "A" (Continued)

Name of Station	Installed generating capacity KW	Present output capacity KW	REMARKS Reason for LOSS in output
RIETI TH. (Non Grid)	2,000	840	Coal Supply & Repairs
RIETI TH.	7,000	-	War damage.
RICCARDI O (FIRENZE) (Non Grid)	3,400	1,400 @	War damage.
ROCCHETTA	3,400	-	Enemy hands.
ROMA TH.	51,250	29,000	Maint. & Repairs.
ROSIGNANO TH.	9,344	3,000 @	War damage.
SALISANO	16,000	-	War damage.
S.ELPIA	1,360	160	War damage.
S.GIACOMO	New const.	-	Proposed 150,400 KW
S.SAVINO (SIR)	1,403	400	
SCANDALE	8,000	4,000	Insufficient water.
SERVIA	3,360	-	War damage.
SILLANO	1,000	-	Enemy hands.
SILVICO	1,200	-	Enemy hands,
SPOLETO	12,600	-	War damage.
SUCCIATO (Non Grid)	2,450	200	
SUSSICO	7,760	3,200	War damage.
TERNIA	30,000	-	Enemy hands.
TIVOLI SUD	1,100	900	
[illegible]	2,000	-	War damage.

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RIETI TH. (Non Grid)	2,000	840	Coal Supply & Repairs
RIFREDI TH.	7,000	-	War damage.
RICORDI (FIRENZE) (Non Grid)	3,400	1,400 @	War damage.
ROCCHETTA	3,400	-	Enemy hands.
ROMA TH.	51,250	29,000	Maint. & Repairs.
ROSIGNANO TH.	9,540	3,000 @	War damage.
SALISANO	16,000	-	War damage.
S.ELIA	1,350	160	War damage.
S.GIACOMO	New const.	-	Proposed 150,400 KW
S.SAVINO (SRT)	1,400	410	
SCANZANO	8,000	4,000	Insufficient water.
SERVIA	3,330	-	War damage.
SINIGO	1,000	-	Enemy hands.
SUNICO	1,200	-	Enemy hands,
TERNI	12,600	-	War damage.
TERNI (Non Grid)	2,450	200	
TERNI	7,760	3,200	War damage.
TIBER	30,000	-	Enemy hands.
TRI GEN	1,100	900	
TRI MUNIC.	2,000	-	War damage.
TRI PLANT	1,500	-	Generator burned out.
TRI STEEL (Non Grid)	1,464	476	
VILLARFELLO	15,520	-	War damage.
VOGA	2,640	2,200	
VOLCI	3,520	1,200	

@ ESTIMATED

2601

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

C E N T R A L I T A L Y

TABLE "A" (Continued)

Name of Station	Installed generating capacity KW	Present output capacity KW	REMARKS Reason for LOSS in output
ZECCA I	1,775	-	War damage.
ZECCA II	1,200	-	War damage.
SMALL PLANTS	61,695	7,366	42 Plants operating.
MOLISE			
CAPO VOLTURNO	20,000	-	War damage.
LETE (PRE [illegible])	9,400	-	War damage.
ROTTEROTTO	2,240	-	War damage.
S.MASSIMO	5,000	-	War damage.
S.BARTOLO	1,250	-	War damage.
SOLOPA	1,070	-	War damage.
VILLECOLA	1,000	-	War damage.
TOTAL	1,352,725	114,652	

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BECCA I	1,775	-	
BECCA II	1,200	-	War damage.
SMALL PLANTS	81,695	7,566	42 Plants operating.
BOLIBIA			
CAMPO VOLTUMO	20,000	-	War damage.
ILTT (PRAT. SANIT.)	9,400	-	War damage.
PONTECOTTO	2,240	-	War damage.
S.MASSIMO	5,000	-	War damage.
S.SPIRITO	1,250	-	War damage.
SOLIER.	1,070	-	War damage.
VALLECURA	1,000	-	War damage.
TOTAL	1,362,725	114,652	

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C E N T R A L I T A L Y

TABLE "E"

Schedule of Generator Capacity in service and being repaired 31 December 1944

Name of Station	Plant in operation 31 Dec. 44	YEAR 1945					
		31 Jan.	28 Feb.	31 March	30 April	31 May	30 June
ACQUORIA	5,500				4,000		
ARDI	8,320						
BOLOGNOLA	2,760						
CARASSAI	728						
CERRETO	3,500				5,500		
CERVARA	9,000						
COMUNACQUA	9,120						
DE CECCO	600						
FAIE. 2	4,500						
LAUDERMILLO 1	3,900	700					
LEGHORN (U.S.A.)	1,600						
NERA MONTORO	19,600						
PIEDISO	4,500						
PIGNALELI	1,000						
PIANARUCCI	1,930						
PIAN DELLA ROCCA	14,000		11,000				
PIANICELLA	1,870						
RIETI TH.	1,000						
RIORDINO	1,400						
ROME THERMAL	53,000						
ROSIGNANO	3,000	3,000					
SATELIA	400						

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ARCI	8,320						
BOLOGNOLA	2,760						
CARSSAI	728						
CERRINO	3,500				5,500		
CERVARA	9,000						
COMUNACQUA	9,120						
DE CECCO	600						
FABRI. 2	4,500						
LARDARELLO 1	3,900	700					
LEGHORN (U.S.A.)	1,600						
MERA MONTORO	19,600						
PERSO	4,500						
PORCARELLI	1,000						
PIANARUCCI	1,920						
PIAN DELLA ROCCA	14,000		11,000				
PIANICELLA	1,870						
RENTI TH.	1,000						
RIORDINO	1,400					2594	
ROSE TERMAL	53,000						
ROSIGNANO	3,000	3,000					
S.ELENA	400						
S.SAVINO (SRS)	300						
SCARFILE	8,000		4,000				
SPOLETO	3,500						
SUBLCO	3,880						
TERNI JUTE	1,100						
SUB TOTALS	153,348	3,700	7,000	-	9,500	-	-

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CENTRAL ITALY

TABLE "B" (Continued)

Name of Station	Plant in operation 31 Dec. 44	1945 31 Jan.	28 Feb.	31 March	30 April	31 May	30 June
Brought Forward	153,348	3,700	7,000	-	9,500	-	-
TERNI STEEL	600						
VESEA	2,640						
VULCI	3,520						
SMALL PLANTS	10,745						
ALLUVIORATA			350	210			
AVENTINO		4,000					
BAGNI DI TIVOLI				250			
CANTERANO			10,000				
CASTELLANO							2,250
CASTELNUOVO CECINA				12,000			
CASTELMADAMA							6,000
CALLETO		34,400			34,400		34,400
CERESA 1					4,000		
ISOLA DEI PELICNI		800					
LIMA		1,500					
MANDELA							3,000
MOLINA ATTENO					500		
MORGONE					140		
PETTORANO		300	300				
S.ANTONIO		250					
SELVENA		1,575					
TARQUINIL		150					

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VESTA	[illegible]						
VULCI	3,520						
SMALL PLANTS	10,745						
ALLUMIERA			350	210			
AVENTINO		4,000					
BAGNI DI TIVOLI				250			
CANTIERO			10,000				
CASTELLANO						2,250	
CASTELNUOVO CECCINA				12,000			
CASTELMADAMA						6,000	
CALLISTO		34,400			34,400	34,400	
CERVOSA 1					4,000		
LIC. DEI PELIGNI		800					
LIMA		1,500					
MANDELA						3,000	
MOLINA ATTICO					500		
MORGONE					140		
PETTORANO		300	300				
S.ANTONIO		250					
SELVINA		1,575					
TARQUINIA		150					
VILLAMARTELLO						3,000	
Monthly Increase		43,675	17,650	12,460	48,540	-	48,650
TOTALS	170,851	214,526	232,176	244,636	293,176	293,176	341,826

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SOUTHERN ITALY

TABLE "C"

Installed generating capacity and present output of generating stations in operation as of 31 December 1944.

Name of Station	Installed generating capacity KW	Present output capacity KW	REMARKS Reason for LOSS in output
ANIC TH.	3,000	-	No report.
CALUSIA	35,200	24,500	Insufficient water.
CAPUANO TH.	45,000	30,000	-
CAZZANO TH.	1,050	-	No report.
CELESTE	1,410	-	No report.
DOMODOSSOLA TH.	8,820	3,000	-
FIUMI DI NOTARO	1,080	-	No report.
TRATTA TH.	1,400	-	No report.
GALATRO	1,000	-	No report.
LUCCIA TH.	1,080	-	No report.
MATERA 1	10,500	5,400	Insufficient water.
MATERA 2	11,200	-	war damage.
MELANDRO (FONDOVALENTINA)	1,800	-	No report.
MERGARI	1,300	-	No report.
MURO LUCANO	1,680	-	No report.
NAPOLI S'MA TH.	1,800	-	No report.
ORICHELLA	54,000	36,500	Damaged unit.
S.GIOVANNI a TEDUCCIO TH.	1,800	-	No report.

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Name of Station	Generating capacity Kw	Output capacity Kw	Reason for LOSS in output
ANIC TH.	3,000	-	No report.
CALUSIA	35,200	24,500	Insufficient water.
CAPUANO TH.	45,000	30,000	-
CARBONE	1,050	-	No report.
CELESTE	1,410	-	No report.
[illegible] TH.	8,820	3,000	-
FIUMI DI [illegible]	1,080	-	No report.
FRATTA TH.	1,400	-	No report.
GALATRO	1,000	-	No report.
LUCERA TH.	1,080	-	No report.
MATERA 1	10,500	5,400	Insufficient water.
MATERA 2	11,200	-	war damage.
Mattarello (Pescantina)	1,800	-	No report.
MERGOZZO	1,300	-	No report.
MURO LUCANO	1,680	-	No report. 2598
NAPOLI S'EA TH.	1,800	-	No report.
ORICHELLA	54,000	36,500	Damaged unit.
S.GIOVANNI A TEDUCCIO TH.	1,800	-	No report.
S.MARCO	17,250	-	war damage.
SOLURI - COLACE	1,400	-	No report.
SUIO (CARIGLIANO)	9,225	-	war damage.

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SOUTHERN ITALY

TABLE "C" (Continued)

Name of Station	Installed generating capacity KW	Present output capacity KW	NOTES Reason for LOSS in output
TARANTO 1	9,600	11,650	-
TARANTO 2	2,000		
TARANTO TH.	4,385	-	No report.
TERNI GRUPPO	72,800	79,000	-
TUSCANIO 2 (CL.NARO)	9,680	7,950	Insufficient water.
VI GIULIA PLANTS	23,503	-	No report.
TOTALS	332,983	198,000	

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TALLEGRO 2	2,000	11,650	-
TARANTO TH.	4,385	-	No report.
TERRA GRANDE	72,800	79,000	-
TUSCANO 2 (CL.Valc)	9,630	7,950	Insufficient water.
TY SMALL PLANTS	23,503	-	No report.
TOTALS	332,983	198,000	

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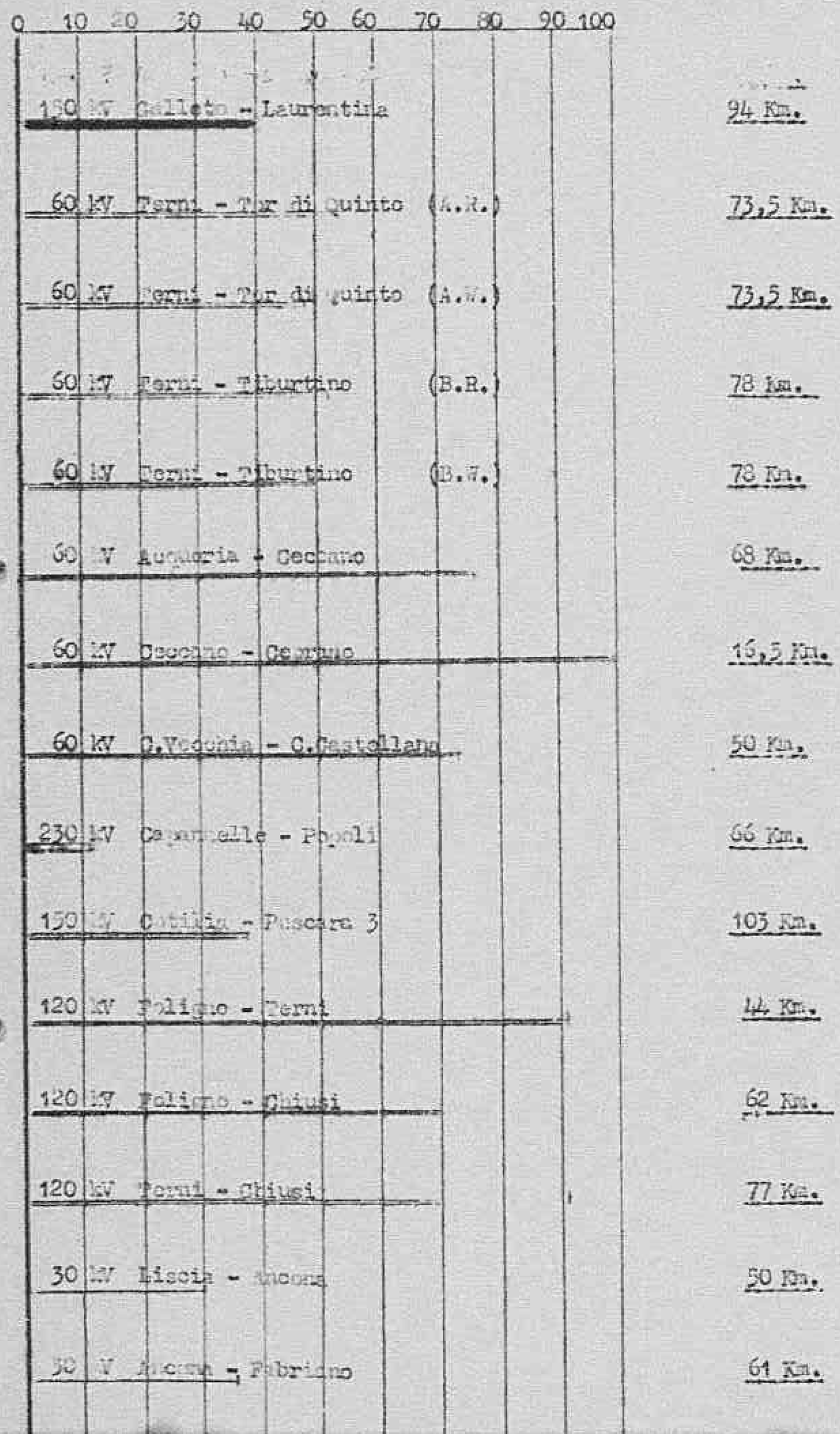
PROGRESS OF RESTORATION OF ELECTRIC TRANSMISSION LINES

CENTRAL ITALY

CHART 1



TOTAL LENGTH

150 kV Colleto - Laurentina	94 Km.
60 kV Terni - Tor di Quinto (A.R.)	73,5 Km.
60 kV Terni - Tor di Quinto (A.W.)	73,5 Km.
60 kV Terni - Tiburtino (B.R.)	78 Km.
60 kV Terni - Tiburtino (B.W.)	78 Km.
60 kV Aucuaria - Cecchino	68 Km.
60 kV Cecchino - Centumo	16,5 Km.
60 kV C.Vecchia - C.Castellano	50 Km.
230 kV Capanelle - Popoli	66 Km.
150 kV Cotilia - Pescara 3	103 Km.
120 kV Foligno - Terni	44 Km.
120 kV Foligno - Chiusi	62 Km.
120 kV Terni - Chiusi	77 Km.
30 kV Iesi - Ancona	50 Km.
30 kV Ancona - Fabriano	61 Km.

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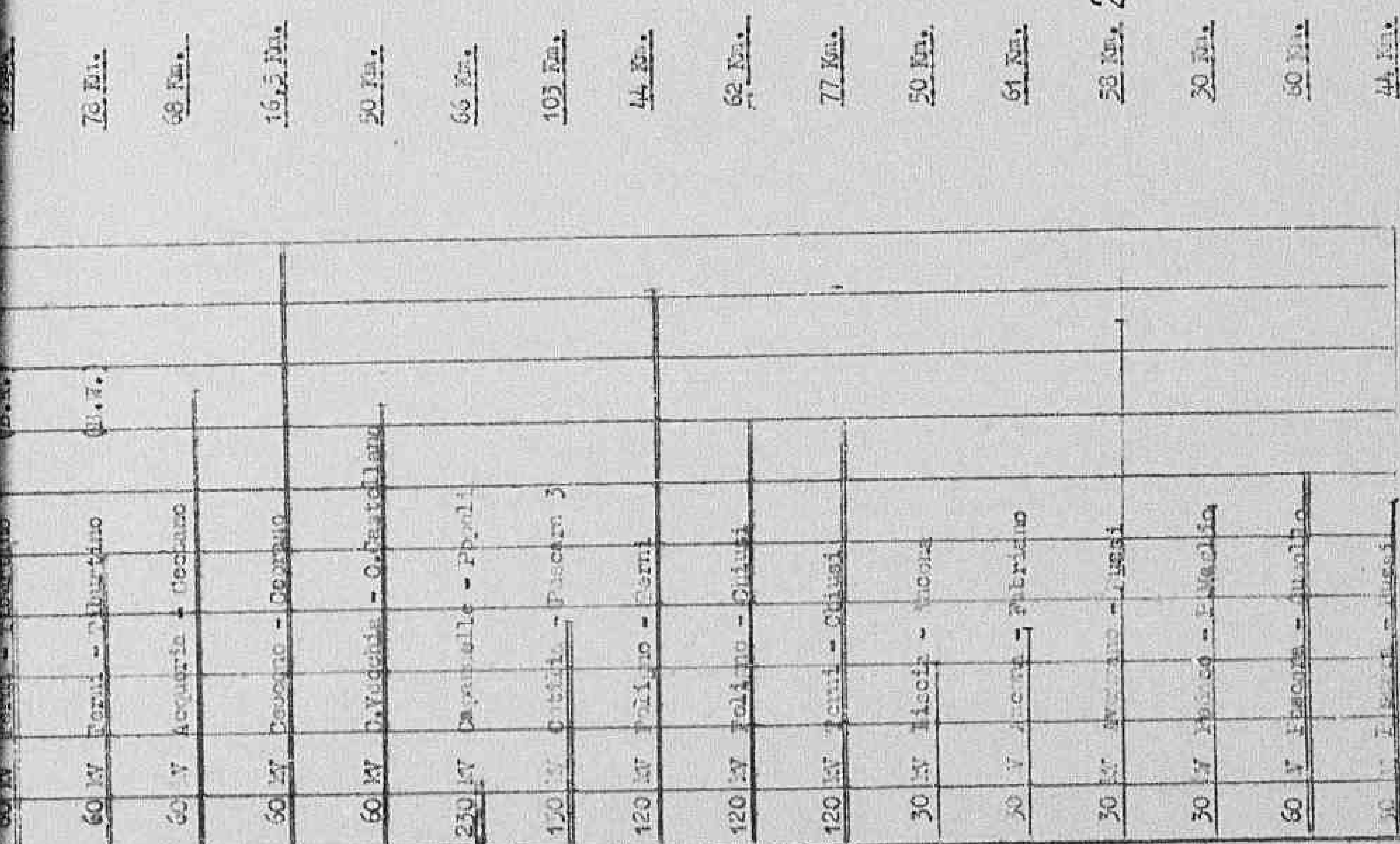
CENTRAL ITALY

CHART 1

PROGRESS OF RESTORATION OF ELECTRIC TRANSMISSION LINES



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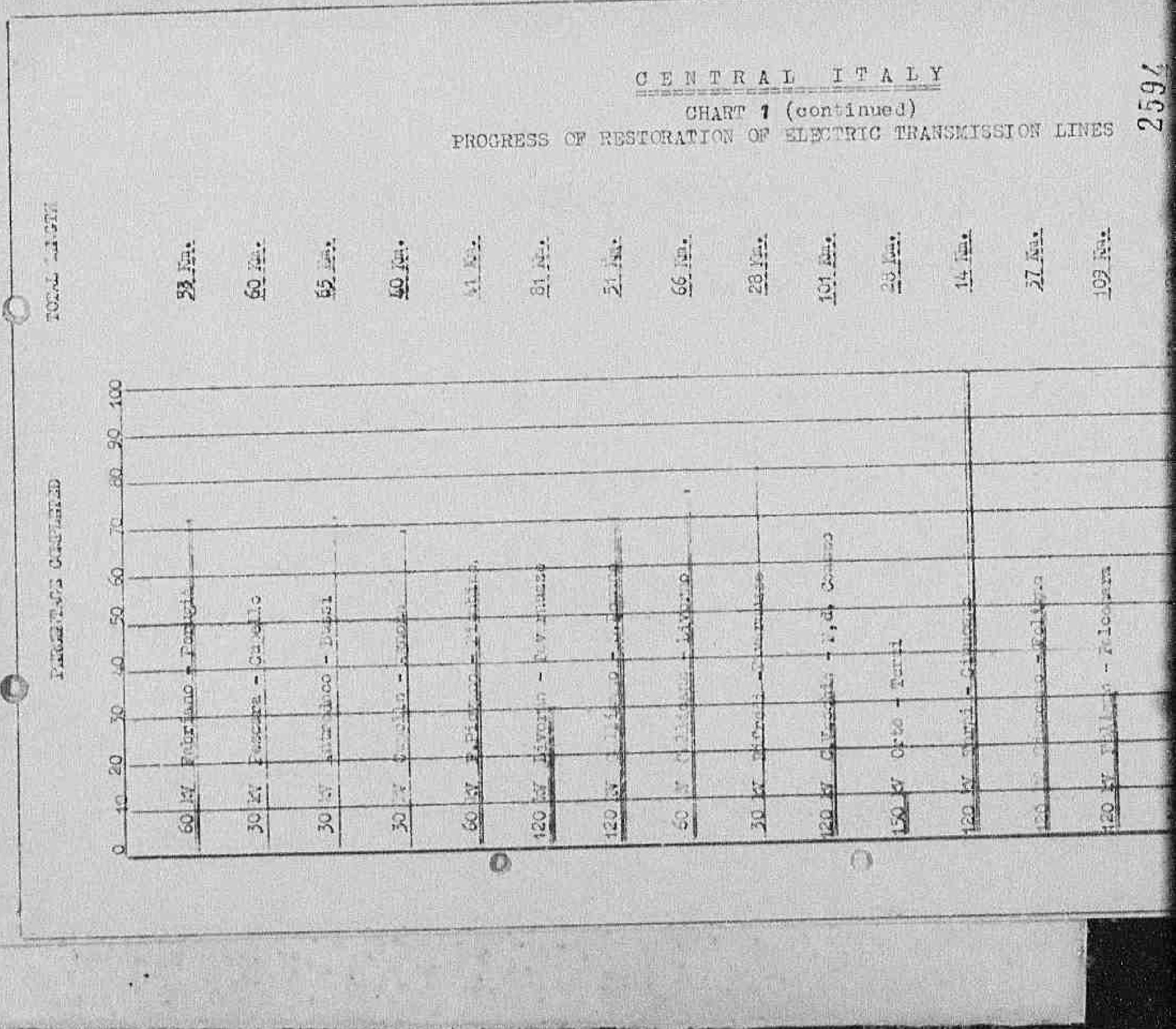
CENTRAL ITALY

CHART 1 (continued)

PROGRESS OF RESTORATION OF ELECTRIC TRANSMISSION LINES



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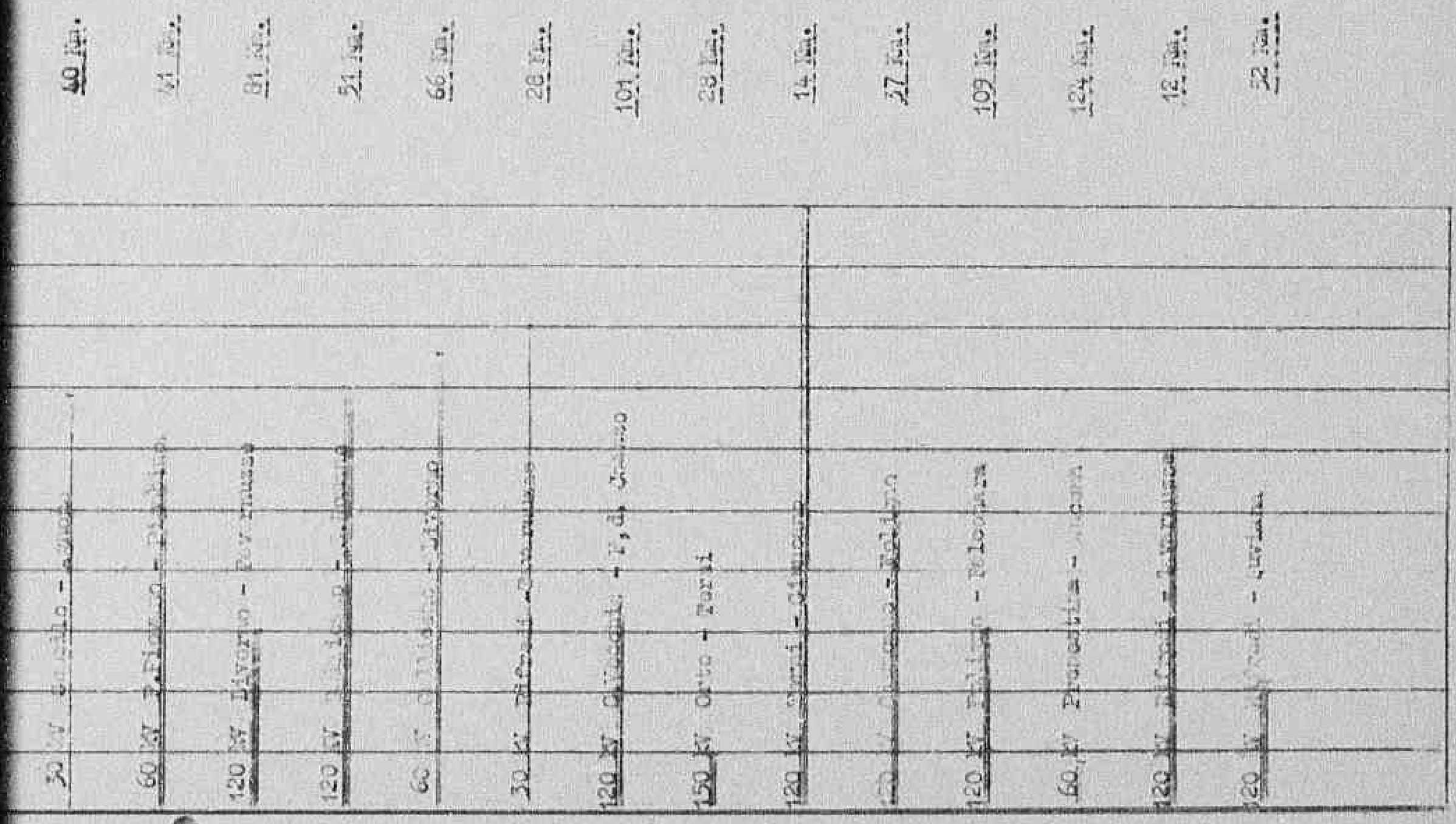
C E N T R A L I T A L Y

CHART 1 (continued)

PROGRESS OF RESTORATION OF ELECTRIC TRANSMISSION LINES



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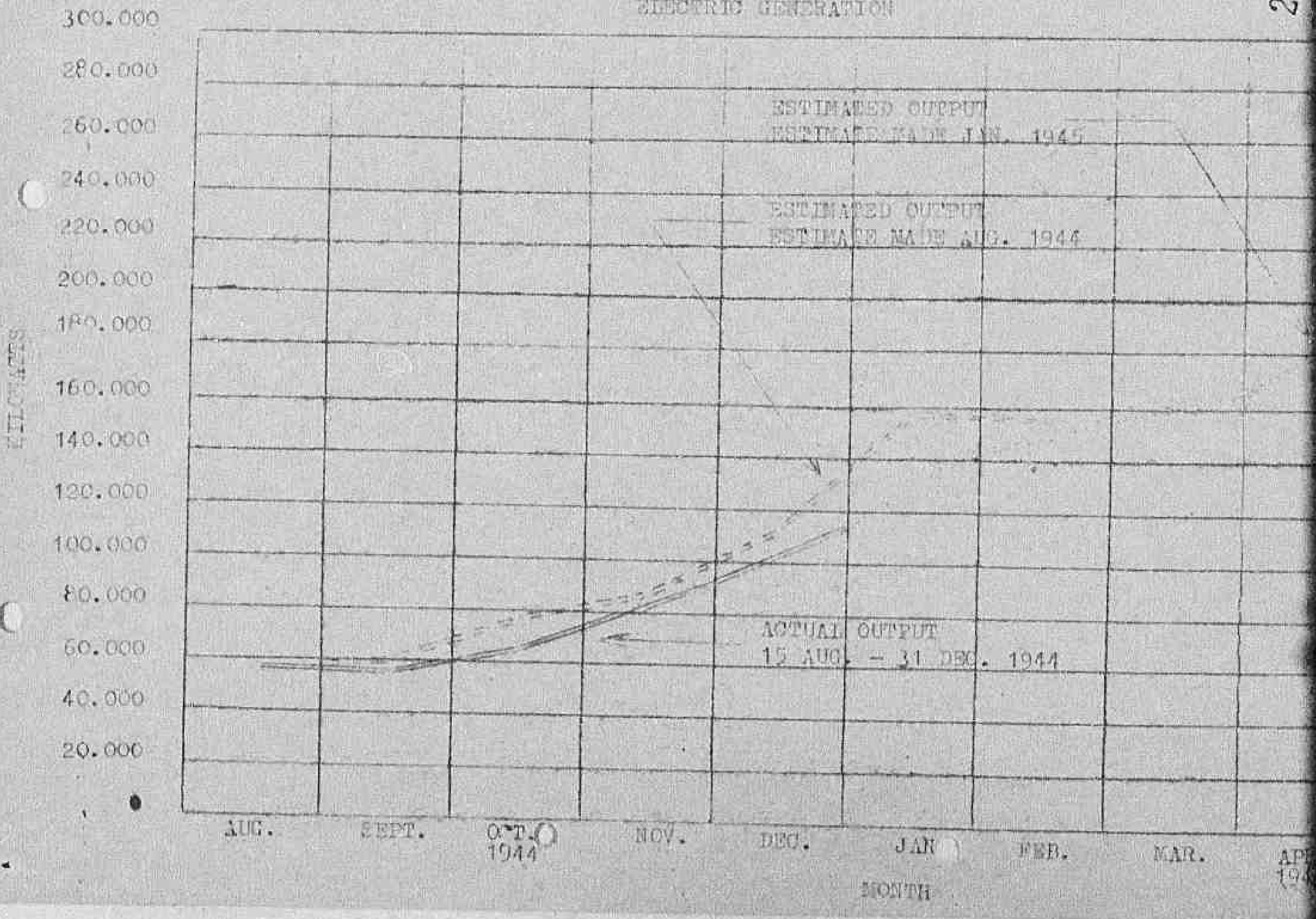
CENTRAL ITALY

CHART 2

ESTIMATED MONTHLY INCREASE ELECTRIC GENERATION

2593



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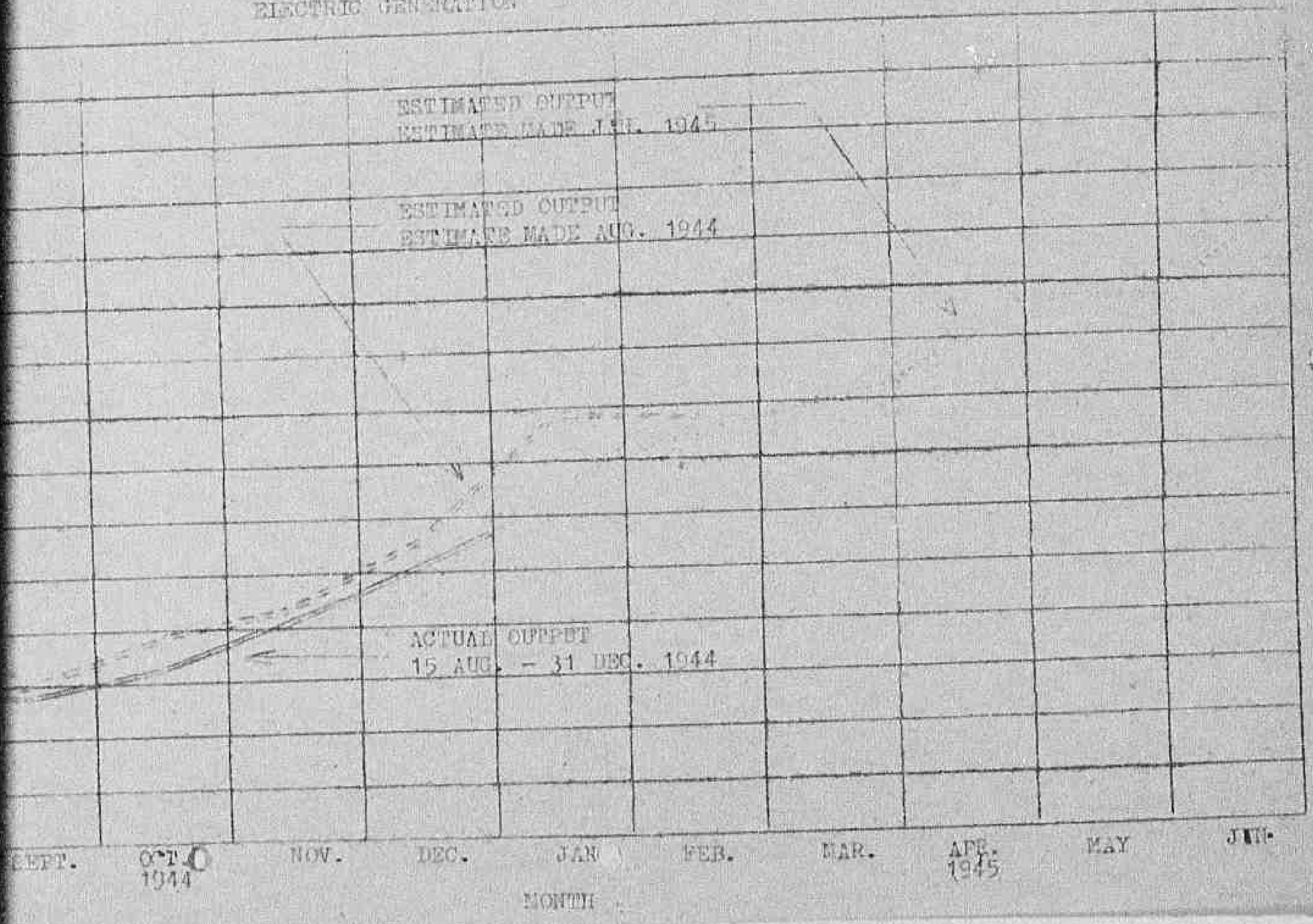
CENTRAL ITALY

CHART 2

ESTIMATED MONTHLY INCREASE
ELECTRIC GENERATION

2563



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

ELECTRICAL DIVISION

RESTORATION OF ITALIAN ELECTRICAL PLANT AND TRANSMISSION SYSTEM

PROGRESS REPORT FOR MONTH OF NOVEMBER 1944

W.M. LAPPER LT. COL.
Chief Electrical Division

2592

L... JEREY LT. COL.
Director Public Works and Utilities
Sub-Commission

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

PROGRESS REPORT FOR MONTH OF NOVEMBER 1944

W.A. LAIRD LT. COL.
Chief Electrical Division

2592

L.A. JEBBY LT. COL.
Director Public Works and Utilities
(AE-Consultant)

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

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

TABLE "A"

Showing the installed generating capacity and present output of generating stations in operation on the grid system as of 30 NOVEMBER 1944.

CENTRAL ITALY

Name of Station.	Installed generating capacity KW	Present output KW	REMARKS Reason for loss in output
AQUILA	48,250	-	War damage.
ALTOLINA	836	550	No report.
ANZIOLA	30,000	-	War damage.
ARCI	9,300	4,800	Insufficient water.
AURELIA	3,000	-	War damage.
AVENTINO	9,400	-	War damage.
BOLOGNOLA	2,750	1,280	
CASTENASO	10,000	-	Complete destruction.
CASAGRANDE	1,130	350	Incomplete report.
CASTELNUOVO	15,400	-	War damage.
CASTELLANO	7,680	-	War damage.
C.NUOVO V. A. CECCA	48,000	-	War damage.
C.NUOVO GARFAGNA	7,200	-	Enemy hands.
C.NUOVO SABBIONI	26,400	-	War damage. Transformers 2397 Other equipment.
CERRANO	9,000	8,000	
CERVARA	9,600	6,200	War damage and steel machinery.
COLLEGENTE	5,200	-	War damage.
CASTELNUOVO	2,400	1,500	Insufficient water.

	kW	KW	
ACQUORIA	48,250	-	War damage.
ALTOLINA	896	550	No report.
ANVERSA	30,000	-	War damage.
ARCI	5,300	4,800	Insufficient water.
ARCHELTA	3,000	-	War damage.
AVEZZANO	9,400	-	War damage.
BOLOGNOLA	2,750	1,200	
CANTERNO	10,000	-	Complete construction.
CARACCAI	1,150	359	Incomplete report.
CASTELLALTA	15,400	-	War damage.
CASTELLANO	7,680	-	War damage.
C.NUOVO V. A. CECCA	48,000	-	War damage.
C.NUOVO CAST. COLLI	7,260	-	Enemy hands.
C.NUOVO SABINI	26,400	-	War damage.
DEPRATO	9,000	8,000	Transformer capacity. 2597
GENZANO	9,600	6,200	War damage and spoil machinery.
GOLLEVALTER	5,200	-	War damage.
GORGOLOCA	9,100	4,000	Insufficient water.
GORINO	5,120	-	Enemy hands.
GOTILIA	54,700	-	War damage.
RAMP. I	19,200	-	War damage.
RAMP. II	9,600	4,000	War damage.
RANDOLA	1,050	247	War damage.
RONTANA LIRI	3,000	-	War damage.

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TABLE "A" (continued)

Name of Station	Installed generating capacity KW	Present output KW	REMARKS Reason for LOSS in output
FORTE CHIA.	4,500	-	War damage.
FUSO	5,000	-	War damage.
G.LLETO	137,600	-	War damage.
G.LLIANO	21,600	-	War damage.
GENOVA I	16,000	-	War damage.
GENOVA II	756	-	War damage.
LOVA and PELENI	1,600	-	War damage.
L.[illegible]	540	-	War damage.
L.[illegible]ELLO I	7,600	3,000	Maint and repairs.
L.[illegible]ELLO II	72,000	-	War damage.
LATERINA	600	-	War damage.
LIRCA	800	-	War damage.
LIRI	5,000	-	War damage.
LIVORNO	41,600	-	War damage.
LIVORNO (U.S. ..AC)	1,800	1,800	Portable equipment.
MANOVA	6,000	-	War damage.
MANTOVA	21,600	-	War damage.
MILAN. ACERBO	1,200	-	War damage.
MORINO I	1,070	-	War damage.
MORINO II	1,900	-	War damage.
MORINO S.E.E.	12,000	-	War damage.
MORZINO	3,120	-	War damage.
MONT. MONTORO	22,400	14,000	Insufficient water.

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GENOA I	16,000	-	War damage.
GENOA II	756	-	War damage.
LAGO DEI PELENI	1,600	-	War damage.
L. [illegible]	640	-	War damage.
LAMENTELLO I	7,600	3,000	Paint and repairs.
LAMENTELLO II	72,000	-	War damage.
LATERINA	800	-	War damage.
LISOLA	800	-	War damage.
LIRA	6,000	-	War damage.
LIVORNO	41,600	-	War damage.
LIVORNO (U.S. ARMY)	1,000	1,000	Portable equipment.
MANDELA	6,000	-	War damage.
MARMORE	21,600	-	War damage.
MEDIA ANTRO	1,200	-	War damage.
MORENO I	1,670	-	War damage.
MORENO II	1,900	-	War damage.
MORENO S.A.E.	12,000	-	War damage. 2.09
MONZANO	3,120	-	War damage.
NUEVA MONTORO	22,400	14,000	Insufficient water.
PAPIGNO	65,200	-	War damage.
PAVIA	11,900	-	War damage.
PELSO	4,800	3,700	Insufficient water.
PELLEGRINI	2,000	1,000	War damage.

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TABLE "J" (continued)

Name of Station	Installed generating capacity KW	Present output KW	REMARKS Reason for LOSS in output
PRETORINO	4,000	-	War damage.
PESCARA I	9,920	-	War damage.
PESCARA II	28,800	-	War damage.
PESCARA III	22,500	-	War damage.
PESCARA IV	24,000	-	War damage.
PIAN DELLA ROSA	33,600	-	War damage.
PIANICELLA	1,880	1,600	Insufficient water.
PONTE PIANE	9,000	-	War damage.
PORTICIOLO	1,120	-	War damage.
RENCI	7,200	-	War damage.
RAGGIOLI	820	-	War damage.
RIVAROTTE	400	-	War damage.
RIVIT (O.I.S...)	2,800	600	Coal supply and repairs.
ROCCHETTO	640	-	War damage.
RICCIONE	3,700	1,800	War damage.
ROSE TIBERIAL	49,000	21,000	Maint and repairs.
ROSIGNANO	9,600	2,000	War damage.
SALIGNO	17,600	-	War damage.
SAN PIERO	3,500	-	War damage.
SCANDELE	6,000	4,200	Insufficient water.
SENIGALLIA	1,000	-	War damage.

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PESC.A. II	28,800	-	War damage.
PESC.A. III	22,560	-	War damage.
PESCIA IV	24,000	-	War damage.
PIA DELLA ROSA	33,600	-	War damage.
PIETRILLA	1,200	1,200	Insufficient water.
PONTE PIAVE	9,000	-	War damage.
PRATO/TICO	1,120	-	War damage.
PRIOLI	7,200	-	War damage.
RAGGIOLI	820	-	War damage.
R.V.OCE	400	-	War damage.
RITTI (C.I.S...)	2,800	600	Coal supply and repairs.
RIVERSIDE	640	-	War damage.
RIVOLINO	3,900	1,200	War damage.
ROAD METHOD	49,000	21,000	Maint and repairs.
ROSITO.NO	9,600	2,000	War damage.
SALITANO	17,500	-	War damage.
SAN PIETRO	3,500	-	War damage.
SCILLELE	8,000	4,200	Insufficient water.
SERRALUNGO	6,000	-	War damage.
SICILIO	2,400	180	War damage.
S.I.M.	1,360	-	War damage.
SIMONE	3,360	-	War damage.
STRADONE	7,040	-	War damage.
SPITALIO	14,400	-	War damage.
STELLO	1,040	-	Enemy bombs.

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TABLE "A" (continued)

Name of Station	Installed generating capacity KW	Present output KW	REMARKS Reason for LOSS in output
SELZOT	1,200	-	Enemy hands.
SUELOO	6,400	3,200	War damage.
SEVILLA	42,800	-	War damage.
TERNI JUTIFICIO	1,100	900	War damage.
TERNI PLANT	1,300	1,300	-
TERNI STEEL	2,000	450	-
TERNI MUNICIPALE	3,200	-	War damage.
TOLENTINO	3,300	1,200	War damage.
VELPLNA	800	-	War damage.
VENAFRO	15,500	-	War damage.
VESTA	2,400	2,200	-
VILL. POTENZ. I	840	-	War damage.
VIELCI	3,840	2,100	-
16 SMALL PLANTS ROME AREA	4,610	2,400	Repairs and insufficient water.
26 SMALL PLANTS UMBR (in operation)	5,100	3,980	Repairs and insufficient water.
36 SMALL PLANTS UMBR (damaged)	9,250	-	War damage.
TOTAL	1,190,312	102,237	

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SAVONA	42,800	-	War damage.
TERNI (UTILITIES)	1,100	200	War damage.
TERNI PLANTS	1,300	1,500	-
TERNI STEEL	2,000	450	-
TERNI MUNICIPALS	3,200	-	War damage.
TOLENTINO	5,300	1,200	War damage.
VALPLANA	800	-	War damage.
VENAZZOLLO	15,500	-	War damage.
VIGEVANO	2,400	2,200	-
VILL. POTENZA I	840	-	War damage.
VULCI	3,840	2,100	-
18 SMALL PLANTS NORTH ITALY	4,610	2,400	Repairs and insufficient water.
26 SMALL PLANTS CENTR (in operation)	5,100	3,980	Repairs and insufficient water.
36 SMALL PLANTS CENTR (damaged)	9,250	-	War damage.
TOTAL	1,190,342	102,237	

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T A B L E "B"

Showing Generating Plants, connected to Grid System, now in operation after repairs, and progress of repair to Plants still out of service.

CENTRAL GRID

Name of Station	Installed generating capacity KW	Present output KW	REMARKS Estimated date of completion
LOCKHILL	45,250	-	1 x 15,000 KW Dec. '45. 1 x 5,500 KW from Coorain Dec. '44. 1 x 4,500 KW from Scotsville May '45.
[illegible] PRINCIPAL	30,000	-	1 x 10,000 KW Sept. '45.
[illegible] P.C.L. Steam	3,000	-	Transformer to be transferred from Yuloi and modified.
[illegible]	6,400	-	1 x 4,000 KW Jan. '45.
C[illegible]TRONIC	10,000	-	New construction to be completed, Feb. '45.
C[illegible]TRIFUGAL	15,400	-	1 x 6,000 KW June '45.
[illegible]ERALDTON	9,000	8,000	1 set transferred to Leyburn.
[illegible]TWELL	9,600	6,200	1 x 1,500 KW Dec. '44.
C[illegible]TLEMAINE V. L. CENTRAL	48,000	-	1 x 12,000 KW March '45.
CUTHILL	54,700	-	1 x 27,000 KW Dec. '45.
F[illegible] I	17,600	-	1 x 5,000 from Coomacoga. June 30 '45.

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..OUNOLL	48,250	-	1 x 15,000 KW Dec. '45. 1 x 3,300 KW from Comrso Dec. '44. 1 x 4,300 KW from Serlello May '45.
..IVE.A PRINCIPE	30,000	-	1 x 10,000 KW Sept. '45.
..RELL P.O.F. Stura	3,000	-	Transformer to be transferred from Vallol and modified.
..VEDINO	8,400	-	1 x 4,000 KW Jan. '45.
C..TELLETTO	10,000	-	New construction to be completed. Feb. '45.
C..STELNUOVO	15,400	-	1 x 6,300 KW June '45.
CERVINO	2,000	8,000	1 set transferred to Moncrivo.
CERVIRA	9,500	6,200	1 x 1,500 KW Dec. '44.
C.STELNUOVO V.d. CROCE	48,000	-	1 x 12,000 KW March '45.
CUNEO	24,700	-	1 x 27,000 KW Dec. '45.
FINA I	17,600	-	1 x 5,000 from Castanesa June 30 '45. 1 x 6,400 KW 2587 Dec. 31 '45.
FINA II	9,600	4,000	
FONTAN. LIVI	3,000	-	1 x 1,000 KW Dec. '45.

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

TABLE "2" (continued)

Name of Station	Installed generating capacity KW	Present output KW	REMARKS Estimated date of completion
PONTE DEL.	4,500	-	1 x 3,800 KW from ARCI June '45.
GALLETO	136,600	-	1 x 35,000 KW Dec. 31 '44.
			1 x 35,000 KW Febr. 28 '45.
			1 x 35,000 KW Apr. 30 '45.
			1 x 35,000 KW June 30 '45.
CHIOSA I	16,000	-	1 x 4,000 KW April '45.
L.M. PELLICE	1,650	-	1 x 800 KW Jan. '45.
LAGHELLO OLA.	7,600	3,000	1 x 900 KW Dec. '44.
			1 x 700 KW Jan. '45.
MILVIL	8,000	-	1 x 4,000 KW June '45.
MORINO	12,000	-	1 x 6,000 KW Dec. '45.
VOLTIL. MORINO	1,200		1 x 500 KW from Galleto Apr. '45.
PELLICE	2,000	1,000	
VENOSTA I - II - III - IV	85,250	-	1 x 11,000 KW Sept. '45.
			1 x 8,000 KW Dec. '45.

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GALERA	156,500	-	1 x 35,000 KW Dec. 31 '44. 1 x 35,000 KW Febr. 28 '45. 1 x 35,000 KW Apr. 30 '45. 1 x 35,000 KW June 30 '45.
GIMOSA I	16,000	-	1 x 4,000 KW April '45.
LAS PEÑAS	1,600	-	1 x 800 KW Jun. '45.
LAUREL OIL.	7,600	3,000	1 x 900 KW Dec. ' 44. 1 x 700 KW Jun. '45.
LLANOS	4,000	-	1 x 4,000 KW June '45.
MORENO	12,000	-	1 x 6,000 KW Dec. '45.
PALO ALTO	1,200		1 x 500 KW from Guillermo Apr. '45.
PILARES	2,000	1,000	
REYNOSA I - II - III - IV	35,480	-	1 x 11,000 KW Sept. '45. 1 x 8,000 KW Dec. '45.
PONTA VERDE	9,000	-	1 x 3,480 KW June 30 '45.
ZAPOTALITO	4,000	-	1 x 300 KW Febr. '45.
ZORRILLO	5,900	1,000	1 x 700 KW Dec. '45.

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

TABLE "B" (continued)

Name of Station	Installed generating capacity KW	Present output KW	REMARKS Estimated date of completion
MORIANO ROMANO	9,600	2,000	-
SALERNO	17,600	-	1 x 8,000 KW Aug. '45.
S.SAVINO	800	700	
SELVETA	3,360	-	1 x 1,500 KW Jan. '45.
SPOLETO-CESI I	200	340	-
SPOLETO-CESI II	500	-	-
STELLA	6,400	3,200	
TARQUINIA	300	175	Transformer installation. Jan. '45 increasing capacity.
TERNI Justificio	1,100	900	-
TERNI Steel	8,960	450	-
TRIONZO	800	800	-
VENAFRO-CELLO	15,500	-	1 x 3,500 KW June '45. 1 x 8,000 KW from Garda Dec. '45.

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			-
SALISANO	17,600	-	1 x 8,000 KW Aug. '45.
S.SALVANO	200	700	
SELVENA	3,360	-	1 x 1,500 KW Jan. '45.
SPOLETO-SEL. I	200	300	-
SPOLETO-SEL. II	500	-	-
SUPLOO	6,400	3,200	
TARQUINIA	300	175	Transformer installation. Jan. '45 increasing capacity.
TERNI Jutificio	1,100	900	-
TERNI Steel	2,000	450	-
TRIPONZO	800	600	-
VERZUANELLO	15,500	-	1 x 3,500 KW June '45. 1 x 8,000 KW from Gorgon Dec. '45.

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MONTHLY INCREASE
ELECTRIC GENERATING CAPACITY

GENERAL ITALY

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

MONTHLY INCREASE
ELECTRIC GENERATING CAPACITY

CENTRAL ITALY

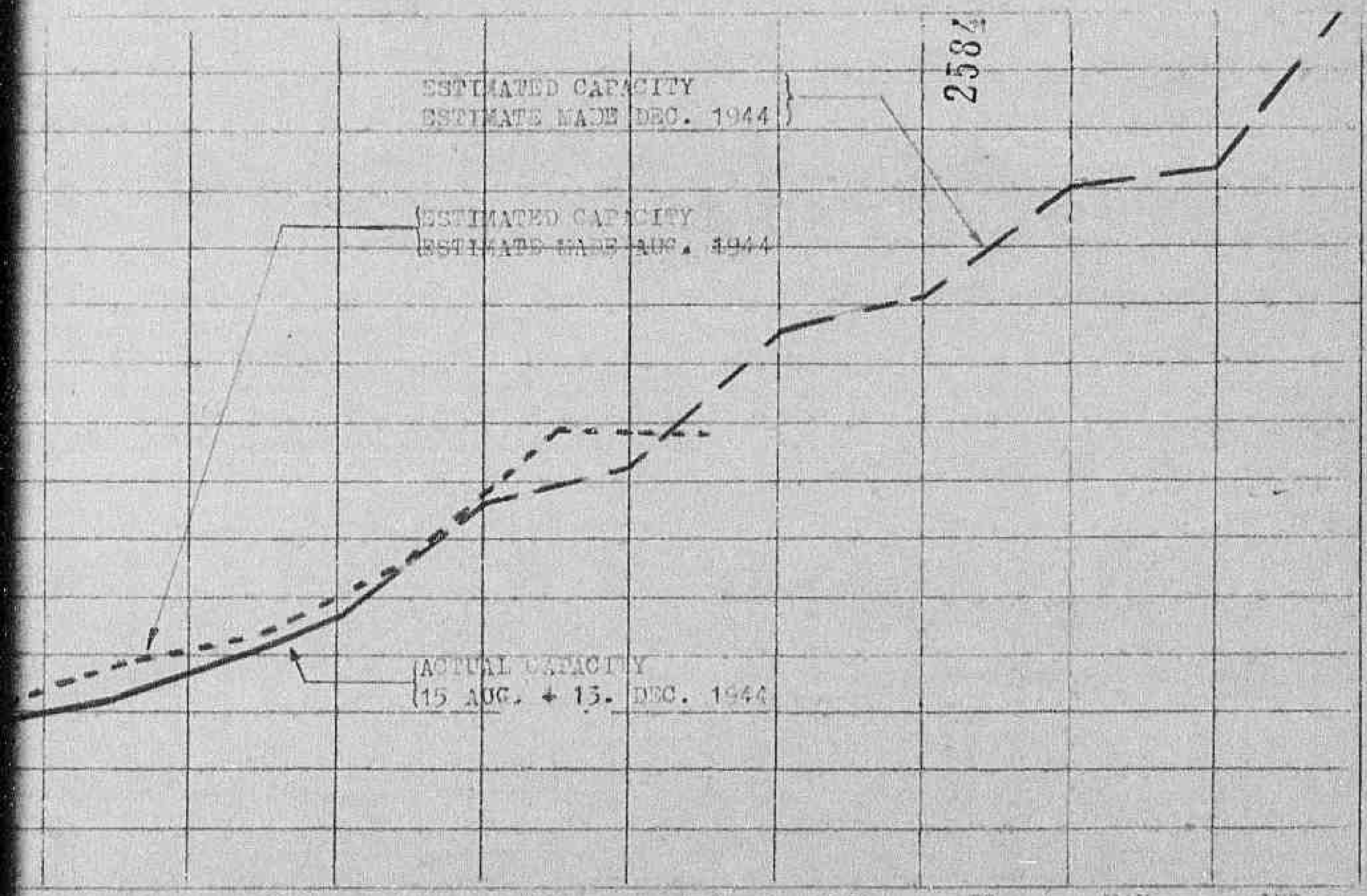

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CHART 2

SHOWING THE ESTIMATED AND ACTUAL PROGRESS
IN THE RESTORATION OF TRANSMISSION LINES
CENTRAL ITALY

2583

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

CHART 2

SHOWING THE ESTIMATED AND ACTUAL PROGRESS
IN THE RESTORATION OF TRANSMISSION LINES
CENTRAL ITALY

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DRAFT

SECRET

LWL/ac

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

mailed 12/5

Telephone
Rome 489081 - Ext.317

Date _____

ELECTRICAL RECONSTRUCTION COMMITTEE (ITALY)

MINUTES

The sixth meeting of the Electrical Reconstruction Committee (Italy) was held at 1400 hours on Tuesday 17th April 1945 in Room 16 - 8th Floor A.C. Headquarters, Via Vittorio Veneto, Rome.

Present :

C.E. - A.F.H.Q.	- Maj.Gen.G.	McCOACH, Chairman
A.C.	- Lt.Col.	W.M. LAPPER
D.E. - A.F.H.Q.	- Major	J.C. RAY
PENBASE	- Lt.Col.	C. COOLEY
DISTRICT N° 1	- Major	E.J. MACKENZIE
DISTRICT N° 2	- Major	J.W. COOK
DISTRICT N° 3	- Major	R.E. STEVENSON
M.R.S. (Italy)	- Major	J.C. KUBALE

33) - Minutes of previous meeting

The minutes of the previous meeting were agreed.

34) - Matters arising out of theprevious minutes

Nil.

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C.E. - A.F.H.Q.	- Maj.Gen.G.	McCOACH, Chairman
A.C.	- Lt.Col. W.M.	LAPPER
D.W. - A.F.H.Q.	- Major J.C.	RAY
PENBASE	- Lt.Col. C.	COOLEY
DISTRICT N° 1	- Major E.J.	MACKENZIE
DISTRICT N° 2	- Major J.W.	COOK
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M.R.S. (Italy)	- Major J.C.	KUBALE

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The electrical situation for Northern Italy was discussed and the Chairman stressed the importance of making an early survey of the position.

SECRET

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36) - Other business

Lt.Col. Lapper reported that insulating materials for electrical rehabilitation were getting in short supply and it was recommended that priority attention be given to unfilled requisitions which were outstanding. It was stated that electrical rehabilitation work carried out by A.C. had been accomplished by utilizing local stocks plus the importation of only 200 tons of material. This consisted of 31 tons of condenser tubes, 100 tons of transformer bushings, 50 tons of insulating materials and 19 tons of miscellaneous items.

37) - Date and time of next meeting

In view of the inspection and study, now being made of the electric situation in North Italy, the next meeting of the Committee will be on the call of the Chairman and due notice of the date will be sent to all members.

L.W. LAUGHLIN
Major, S.R.
Secretary;
Elec. Recon. Com.(Italy)

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SECRET

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(Attention Major L.W.Laughlin Secry. Elec. Recon. Com. Italy)

1. Please send 1 copies of the minutes of future meetings of the Electrical Reconstruction Committee (Italy).

2. Our correct abbreviated mailing address is D.W. AF.HQ. CMF. APO ____ instead of _____ as shown on distribution list above.

Maj. L. Van Laughlin
Director of Works. A.F.H.Q.
Name of organization

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S E C R E T

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

_____ 1945

Reference : ERC/PWU
Subject : Electrical Reconstruction Committee (Italy) - Minutes of meetings

Forwarded 27 Apr 45

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Major, S.R.
Secretary, Elec.
Recon. Com. (Italy)

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APO 394
Public Works and Utilities Sub-Commission

Telephone
Rome 489081 - Ext. 317

25 April 1945

ELECTRICAL RECONSTRUCTION COMMITTEE (ITALY)

M I N U T E S

The sixth meeting of the Electrical Reconstruction Committee (Italy) was held at 1400 hours on Tuesday 17th April 1945 in Room 16 - 8th Floor A.C. Headquarters, Via Vittorio Veneto, Rome.

Present :

C.E. - A.F.H.Q.	- Maj. Gen.	D. McCOACH, Chairman
A.C.	- Lt.Col.	W.M. LAPPER
D.W. - A.F.H.Q.	- Major	J.C. RAY
PENBASE	- Lt.Col.	G. COOLEY
DISTRICT N° 1	- Major	E.J. MACKENZIE
DISTRICT N° 2	- Major	J.W. COOK
DISTRICT N° 3	- Major	R.E. STEVENSON
M.R.S. (Italy)	- Major	J.C. KUBALE

33) - Minutes of previous meeting

The minutes of the previous meeting were agreed.

34) - Matters arising out of the previous minutes
Nil.

35) - Report on progress of electrical rehabilitation

Lt.Col. Lapper reported that the Master Control Center, for the Central Italy Grid, had been established at its permanent location on 14 April 1945. The present location will be kept available for emergency purposes for the time being.

A report, in revised form, showing the generating plants in operation in Central and Southern Italy, generating plants under repair and estimated dates of completion was presented.

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37) - Date and time of next meeting

It was agreed that the date and time of the next meeting be again arranged on the afternoon following the morning meeting of the Electrical Power Committee of A.F.I.R.(I) B. This has been set for Tuesday 22 May 1945.

L.W. LAUGHLIN
Major, S.R.
Secretary,
Elec. Recon. Com. (Italy)

LW check / This with Rome

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Minutes of xth meeting of E.R.C.(I).

OTHER SUBJECTS

1) - Hydrographic report by Government.
2) - Crotone Plant shut down June.
3) - Power shortage in past met by intercharge North, Centrel & South.
4) - McCoach service interruptions.
5) - Major Ryan - transport
6) - McCoach personnel shortages
7) - Pescara rehabilitation - Maj. Stepens transport
8) - McCoach - power from South to North.
9) - Lt.Col. Cooley - release of Major Ryan.
10) - Maj. Stephens - " " " "
11) - Report page 2 Item 1 - Determined by Advisory Committee/
12) - Report " 2 " 2 - Water flow conditions
13) - McCoach " 2 " 4 - again 1 nearing 30%
14) - Lt.Col. Renton - 124 km. line repaired.
15) - " " " - South Italy to Pescara to Terni
16) - " " " - RR Line started this month Lordarello to Pontechina - July will help Leghorn
17) - " "" " - Anversa to Rome RR line - Anversa Plant.
18) - " " " - low voltage complaint Florence O.K.
19) - McCoach - low voltage Ancona - nothing to be done now.
20) - Lt.Col. Renton - cannibalizing and meager stores being used up.
21) - McCoach - are finances holding up work? No Lt.Col. Lapper
22) - Maj. Barry - April largest month on rehabilitation till June then low till November.
23) - Maj. Barry - Florence works shop capacity being held for repair work ahead of line.
24) - Maj. Barry - anticipated delivery of materials in May. We will then be O.K.

2578

25) - Col. Edgar - 6000 KW capacity available at night.
26) - McCoach - Riccione frequency changes.
27) - Maj. Kubale - Riccione inspected & burned out

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26) - McCoach - Riccione frequency changes.

27) - Maj. Kubale - Riccione inspected - burned out.

28) - McCoach - floating unit to Genova.

29) - Lapper - can go into any area.

30) - McCoach - officers going north should report on situation as soon as possible.

./.

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31) - Maj. Cook - N° 2 District will be in charge of all electricity in North Italy. Liaison necessary.

32) - Maj. Ray - no information on DW stores from England.

33) - Lt.Col. Renton - 120 KV Rifredi-Bologna line 60% completed to firing line.

34) - Lt.Col. Renton - 44 pylons completed - 10 more to do one month to complete the line to Bologna.

35) - Msj. Kubale - RR tunnel work will be completed 7th May Florence to Griziana.

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

Tel. 489081 - Ext.317

P.W. & U. S/C, A.C.
Electrical Division

File : E.R.C. 8 April 1945.

ELECTRICAL RECONSTRUCTION COMMITTEE - AGENDA

The sixth meeting of the Electrical Reconstruction Committee will be held, at 1400 hours on Tuesday 17 April 1945, in Room 16 on the 8th Floor, A.C. Headquarters, Via Vittorio Veneto - Rome.

1) - Minutes of the fifth meeting, of the Committee held on 20th March 1945.

2) - To consider any matter arising out of the meeting of the Committee held on 20th March 1945.

3) - To receive a report from A.C. concerning the progress of electrical rehabilitation.

4) - Any other business.

5) - Date and time of next meeting.

L.W.LUAHLIN
Major, S.R.
Secretary,
Elec.Recon.Com.Italy

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The sixth meeting of the Electrical Reconstruction Committee will be held, at 1400 hours on Tuesday 17 April 1945, in Room 15 on the 8th Floor, A.C. Headquarters, Via Vittorio Veneto - Rome.

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L.W.LUAHLIN
Major, S.R.
Secretary,
Elec.Recon.Com.Italy

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2575

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

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ADVANCED SECTION
ELECTRICAL DIVISION
PUBLIC WORKS & UTILITIES SUB-COMMISSION
ALLIED COMMISSION

Florence, 6 Via Cerretani
Telephone n° 1153
2nd April 1945

SUBJECT: Weekly Report
of Advanced Section

TO : Hqtrs Allied Commission
Public Works & Utilities Sub-Commission
A.P.O. 394

This report covers the period March 24th to 30th inclusive.

March 24th.

Report on Santa Maria station delivered to this office by Società Adriatica di Elettricità. In some respects, it is rather disappointing. Requested that they write an annex showing specifically what help they required from outside sources.

Capt. Lowdon - Journey to Fabriano with Rag. Rossettini. Report on Mucci, Via Mamiani 19, Fabriano. The above is the house address of the a/n who has a store at Via Balbo 7. Unfortunately he was in Rome and his wife took me to the store. There was very little material, but this included approx. 17 - 20 rolls cotton tape; 2 rolls presspan; a box of old "empire" tape; 2,000 electrodes and some black tape (a full list is being prepared with prices). On asking if there was any more electrical material, Mrs. Mucci assured me there was not. I then went to Capt. Johnson, Via Roma 56, (Local Ressources Officer) and had him block all electrical material which this man has. When at Via Roma, I saw a roll of paper approx 15" in width and about a mile long; I brought a sample of this, which is being submitted to Galileo for insulating test. Will visit Fabriano again as soon as transport and opportunity occur.

Eng. Errera - Visit to the "Superpila" battery factory. I visited the "Superpila" factory, Florence, Via Gallusso 16/26, telephone n° 27341, and contacted the Director Dr. Couture. In the Superpila plant the Hq. Squadroon of the XII A.F. is now billeted, but only a part of the building is requisitioned. Normally 300 workers (200 women and 100 men) worked in the plant; now 100 workers are on the job. The factory works for military supply (radio batteries and flash light batteries) for the PBS Signal Section (Major W.R. Hart). The PBS supply will require

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nearly all the bioxide of manganese teherating capacity of the factory, so that only a very little production capacity may be available for other purposes. The Director told me that the factory stores are nearly empty of the materials required for the piles contstruction.

Through a supply of some materials (tin, naphta, wood, coal, etc.) the Superpila could start a work of batteries for telephone, the type normally required for the telephone operation of the Electric Companies. Next week they will be ready to submit a program of works for the above mentioned supply of the Electric Co.

March 25th.

Sunday

March 26th.

Capt. Rogers returned to Riccione with 25 KW power plant from Major Gaither - for use of hospital at San Marino.

Major Laughlin called regarding availability of two more power plants. Contacted Coh. Lee and Major Gaither who do not desire these plants at present.

Major Kubale called - he was returning to Rome. Confirmed that Larderello - Ponticino 120 KV line is first priority. Larderello - Cascina next. He is to call me regarding frequency converter at Riccione.

Capt. Lowdon - To Industry & Commerce for releases for Valdarno (cement). Called Major Price ref Valdarno - Corradini redrawing of wire. He asked for date of delivery of finished product which I gave him (11th March 1943) and he asked for confirmation in writing. This has been done. Got supplemantary release of gasoline for Valdarno. Secured releases for Carbide of Calcium for Pignone, Galileo & Valdarno.

Rag. Rossettini - Ing. Virgili informs that the insulation of the bars for the 800 HP motor in Castelnuovo plant may be done with mica by M.A.T.E.R. in Rome; advised Galileo plant in Florence to suspend the work with new type of insulation. Soc. Larderello request that, as soon as possible, 30 KW power be made available for the brick factory "S.A. Fornaci di Volterra" located in Saline di Volterra; this factory, when power will be available, will futnish the material to repair the electric plant in Larderello.

To dry out the 20,000 KVA transformer at Tavarnuzze, a

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vacuum pump is required. Found this pump in the Galileo plant in Florence. Taken Sig. Aterini of the Valdarno Direction, to Galileo plant. Conference with El. Eng. Di Lella; the Valdarno will have the pump at their disposal for the time requested to dry out the 20,000 KVA transformer at Tavarnuzze. The pump is for continuous service and is connected with a 260 V - 1,5 HP electric motor; needs a general revision.

Major Vallero - Ing. Virgili returned from Rome. Had extensive talks with Ing. De Gasperi of "Terni" and expressed desire to have Terni do the work for second unit instead of Pignone.

There was no official meeting at Rome to elect the department heads of the company. This meeting taking place now.

The 4th 60 KV transformer was completed and put on the line at 11.00 hours. The machine is not being fully utilized at the present time. The load drops to almost nothing during the night - beginning at 23.00 hours and picking up again at 0700 hrs.

Visited Castelnuovo. The load picked up tremendously - about 9100 KW picked up in 1½ hrs. The work is progressing smoothly with calibration of turbine and alternator rotors and also the repair of generator coils.

Called Col. Cooley regarding the load at night. He replied that a program was being developed now to utilize the machine as much as possible. Complained the relay settings at Larderello were set so close that an increase in load interrupted the system. Informed me he would be at Larderello on Wednesday with two of his engineers.

Called Major Crowther re cement at Segni. Can this shipment be expedited by Major Price. (Price initiated the action).

Second 800 HP pump motor will be ready in about 20 days. Now undergoing work at Electric Shop at Larderello. The 4,000 KVA transformer at Larderello I lacks materials. Ing. Musi submitted list of needed materials which will be given to Major Drake, Industry & Commerce Region VIII.

Are rearranging structural steel in Larderello I to accommodate a 300 KVA, direct exhausting, unit., Larderello II is being rapidly cleared up, and repairs on the overhead crane are nearing completion.

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March 27th.

Conference with Eng. Virgili. After he discussed the casting of the 8 ton turbine discharge piece with Pignone, he is of the opinion that Terni would be more satisfactory, in that the pattern is there and they have the experience of the first unit behind them. Called Major Barry regarding this, and he agreed to talk it over with Terni. Later he called back a July 30th delivering date for this casting. If this can be pushed up a month, the second unit at Castelnuovo can be ready August 15th.

Capt. Lowdon - Secured a release for Carbide of Calcium for Larderello. Remainder of clothing has arrived and truck loaded with insulators for S.M.E. on return journey.

Major Crowther - Called on Major Sowers, Regional Transport Officer re Valdarno trucks. The only scheme now available to utility Coys is to apply through Capt. Dickens, Piazza Torino, Phone n° 1870, for permission to hire transport through the Consorzio. This is being done by Dr. Harnisch; the letter to have the approval of this office.

Phoned Major Price and confirmed that the request of insulators from Richard-Ginori shoud go back to Rome on the transport which has brought the remainder of the clothing from Naples.

Requested Major Price to expedite delivery of cement from Terni to Follonica for Larderello. (Message from Vallero)

March 28th.

Ing. Tartaglia from Terni reported in for conference with Richard-Ginori Co.

Major Renton called regarding: 1) average number of Valdarno employees engaged on rehabilitation during the month of March; 2) maps showing damaged lines and ones in operation at the time the Germans left; 3) map of Valdarno system before the war. (This was forwarded by mail to Major Renton on March 29th).

Capt. Lowdon - To Capt. Jarmaine for information regarding bricks for Larderello. These have to be procured from near Siena and a release order has to be got from Capt. Shopel. Will hand this on to Major Vallero. Tried to get more gasoline for Valdarno, but failed. To Galileo ref release of two buildings

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but failed to get any satisfaction.

Major Vallero - Lt-Col. Cooley with his assistants arrived about 1000 hours. The civilian engineers and Ing. Musi arrived at satisfactory solution re the relay settings. Col. Cooley stated that plans are now underway for full utilization of Castelmuovo plant.

Suggested a trip to Rome to check on priorities for Larderello re work being done now, and also to obtain list of what M.A.T.E.R. acquired at Fabriano.

Received list of materials needed for 800 HP motor and also for 4,000 KVA transformer. Will submit them to Major Drake.

March 29th.

Col. Cooley called - Requested that I contact Lt-Col. B.B. Smith (Lightning 25) with 5th Army Engineers regarding Santa Maria project. Col. Smith is interested in keeping A.F. H.Q. informed.

Capt. Lowdon - To Pignone with Eng. Errera. The foundry is now doing more than ever and no work is held up through shortage of supplies. They are now getting 150 KW 24 hours a day, and have three shifts working.

Major Crowther - Tavarnuzze sub-station. The core will be inserted in the tank to day and final assemblies made. Unit will be moved to permanent site as soon as bed, now being prepared, is ready. Cement supplies may hold up the work. Every possible angle to expedite is being pursued. Further quantities of transformer oil are required. Transport is being arranged within the next few days.

A vacuum pump has been traced and delivered to the Valdarno Co.; after slight repair will be put to work drying out the transformer. Progress on all work is satisfactory.

Eng. Errera - With Capt. Lowdon we visited the Pignone Co., in order to contact Ing. Masera and forecast the U.N.E.S. works program, after Eng. Masera's visit to the U.N.E.S. plants. Met Eng. Tamagnini, Eng. Piazzoli, Eng. Masera.

"Geroso": the Pignone can do the castins and the mechanical works required for the n° 2 unit rehabilitation. Many spare parts can be casted with the patterns available in the Tolentino workshop, other parts will require new patterns and

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new draftings. Pignone will send to the plantone of its Engineers with three skilled workers and one draftsman. They will send also some special roller-bearings for the rotors dynamic and static stability tests and correction. On or about April 8th, the Pignone will submit to the U/N.E.S.,in Rome,a complete schedule of the works and the cost estimate, so that a final agreement can be taken.

"Venamartello": the same Pignone crew and the same roller-bearings to be sent to Gerosa may be used to give the dynamic and static stability to the generators rotor (whose shafts is bent 0.5 mm.)

Supplies. Pignone obtained release oredrs for 20 tons of gas coke in the month of April. Cast iron scrap is available, correctives are required, but only a few quantity of them. It seems that the Pignone can do very well the works required for the Gerosa n° 2 unit rehabilitation.

Eng. Tartaglia TERNI Co. visit to Florence:

Galileo Co.: the Galileo will supply the Terni with many control instruments. Ampermeters, voltmeters, insulation meters may be supplied in short time. The Galileo at present can not supply 2 KW meters that Terni requested.

Richard-Ginori Co.: The Terni requires, for the accomplishment of its rehabilitation programm, of bushings for the H.T. transformers and insulators for special 150 KV current transformers. Ginori cannot supply the above from their stores as no insulator of such a kind is available. The insulators must be built, and the 150 KV special insulators are of such a big size that only 25% of the furnace may be filled with them. The Terni insulators supply, if all the insulators requested must be really supplied and are required for the works, will need a very big quantity of coal. The Ginori will write giving answer to the Terni and A.C., but it seems that the 150 KV insulators supply will require about 600 tons of good special coal. Complete information may be obtained on or about April 10th.

March 30th.

Holiday.

Robert A. Bell
2 Major S.C.
Officer in charge

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Tel. 489081
Ext. 317

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

WHL/ac

ERC/PWU

17 April 1945

Subject : Italian Electrical Situation as of 17 April 1945 (Central Italy)

To : ELECTRIC POWER COMMITTEE
ALLIED FORCE LOCAL RESOURCES SECTION RAAC CMF

1. As forecast in the report of 20th March the second of the large generating units at the Galleto Power Station - Terni, came into operation on 10 th April 1945.

2. The Livorno Grid will be connected to the Central Italy Grid as from 1st May 1945. This will complete the inter-connected grid system in Central Italy which will be controlled from the Rome Master Control Centre and Bologna will be the limit of supply from this system.

3. The abnormally dry season is showing signs of reducing the generating capacity in Southern and Central Italy. The present capacity will be maintained but the restored capacity may not be fully available during the critical summer months.

W.H.LAPPER
Lieut-Colonel,
Elec. Reconst.
Committee (Italy)

2368

DRAFT

DRAFT

KWL/ac

SECRET

Copy No____

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

Telephone
Rome 489081 - Ext. 317

March 1945

ELECTRICAL RECONSTRUCTION COMMITTEE (ITALY)

MINUTES

The fifth meeting of the Electrical Reconstruction Committee (Italy) was held at 1400 hours on Tuesday 20th March 1945 in Room 16 - 8th Floor A.C. Headquarters, Via Vittorio Veneto, Rome.

Present

C.E. - A.F.H.Q.	- Maj.Gen.D.McCOACH - Chairman
A.C.	- Lt-Col. W.M.LAPPER
D.W. - A.F.H.Q.	- Lt-Col. R.H.ROOKSBY
PENBASE	- Lt.Col. G.COOLEY
DISTRICT N° 1	- Major W. RIVETT
DISTRICT N° 2	- Major J.W. COOK
DISTRICT N° 3	- Major R.E.STEVENSON
M.R.S. (Italy)	- Major J.C.KUBALE

28) - Minutes of previous meeting

The minutes of the previous meeting were agreed.

29) - Matters arising out of previous minutes

(a) - The Chairman pointed out that the requisitioning of portable generating plants, referred to in minute 24 (b) should be done as early as possible and that reference be made, on the new requisition, that all plant, which had been previously requisitioned and as yet unfilled, be cancelled.

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(b) - Lt.Col.Rooksby reported that 13-130 KW portable sets had been requisitioned by the Military.

(c) - Lt.Col.Lapper reported that the Royal Navy were prepared to take charge of and supervise the operation of the 30,000 KW floating power plant when it arrives in the theatre. The Committee agreed to this.

(d) - 6,000 KW Chinese unit ?

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(e) - The Chairman directed that Public Works and Utilities S/C A.C. be prepared to make rapid surveys of the available power facilities as fast as the armies move foreward in order that decisions may be made regarding the use of the floating plant.

30) - Report on progress of electrical rehabilitation

A report, showing the generating plants in operation in Central and Southern Italy, generating plants under repair and estimated dates of completion, was presented by Lt.Col. Lapper.

Details on generating stations, under repair, were explained by Maj. E.J. Barry and transmission lines and substations were explained by Maj. V.S.Renton.

Lt.Col.Rooksby reported on the electrical situation in the 8th Army territory and the work being done by military units. A 15 KV Local Grid is being developed to serve Cesena, Forlì, Faenza, Ravenna and Meldola. Generating facilities consisted of 600 KW of small hydro plants and 1800 KW of industrial thermal plants which had been repaired making a total of 2400 KW. The later plants were inefficient due to high back pressure since the exhaust steam had been formerly utilized in the industrial processes of the factories.

31) - Other business

Lt.Col.Lapper stated that the Italian Advisory Committee for Southern Italy had made the following recommendations :

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and estimated dates of completion, was presented by Lt.Col. Lapper.

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31) - Other business

Lt.Col.Lapper stated that the Italian Advisory Committee for Southern Italy had made the following recommendations :

(a) - That the 2nd Calore unit (7,500 KW) be completed and reinstalled.

(b) - That the 2nd (4200 KW) unit from the Aventino plant be repaired and installed at the Matise N° 2 plant.

(c) - That the 10,000 KVA 150/60 transformer be moved from Feroleto to Tusciano.

After discussion the committee approved the recommendations.

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(d) - Lt.Col.Lapper reported on the organization of the Advisory Committee for Sardinia, Sicily, Southern and Central Italy and that these committees were now functioning and will hold regular monthly meetings. These Committees will be in position to provide technical advise to the Italian Government after the Military leaves the country.

32 - Date + time next meeting

Other subjects

Lt.Col.Lapper - Present rehabilitation limited by factory facilities

Lt.Col.Lapper - Instructions on the handling of requests for electric power by civilians

Maj. Renton - 75% of pre-war transmission lines 30 KV and above and exclusive of R.R. transmission lines now in operation in Italy. 231 km in Feb. 45

Lt Col. Rockaby - The repair of the 3 - 1280 kw-30 ~ unit at (Conti?) was a long term job.

Maj Renton Recommendation that the high voltage grid system operated at 130,000 volts as a standard voltage for present and future

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82- Date + Time next meeting

Other subjects

Lt.Col.Lapper - Present rehabilitation limited by factory facilities

Lt.Col.Lapper - Instructions on the handling of requests for electric power by civilians

Maj. Renton - 75% of pre-war transmission lines 30 KV and above and exclusive of R.R. transmission lines now in operation in Italy. 221 km in Feb. 45

Lt Col. Rockby - The repair of the 3 - 1250 kw-50 ~ unit at (Conti?) was a long term job.

Maj Renton - Recommendation that the high voltage grid system 256- operated at 130,000 volts as a standard voltage for present and future extensions of the grid.

Maj Renton - Details on number of men engaged on rehabilitation work civilians and ex-POWs from military.

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(44)

Re Chairman referred to p. 22, concerning portable power plants. It was understood that A.C. would indicate any further requisitions for portable Electric units which may be considered necessary for use in Northern Italy.

(X) Lt Col Logan stated that the Advisory Committee on Electric Power, composed mainly of Officials of the Electrical Companies, have been functioning in Sardinia, Sicily, Southern Italy and Central Italy.

He stated that the program of rehabilitation was restricted by the factory capacity available in Italy. A chart showing the detail and estimated program was presented. [illegible] and Bay Ramp and the Rome Area, details of the reconstruction work by Contractor, Italy. Point of interest was details of Rehabilitation Requirements. It was observed that Approx 75% of the pre war transmission lines were now in operable condition in Italy (This includes 30 K.V. and above and electric State Railway lines).

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(X) Lt Col Logan stated that the Advisory committee on Electric Power, composed mainly of Officials of the Electrical Companies were now functioning in Southern Italy and Central Italy.

He stated that the program of rehabilitation was regulated by the factory capacity available in Italy. A chart showing the actual and estimated program was presented, and details of Rehabilitation discussed. It was observed that approx 75% of the for overhead transmission lines were now operable condition in Italy (This includes 30 KV. and above and excludes State Railway lines)

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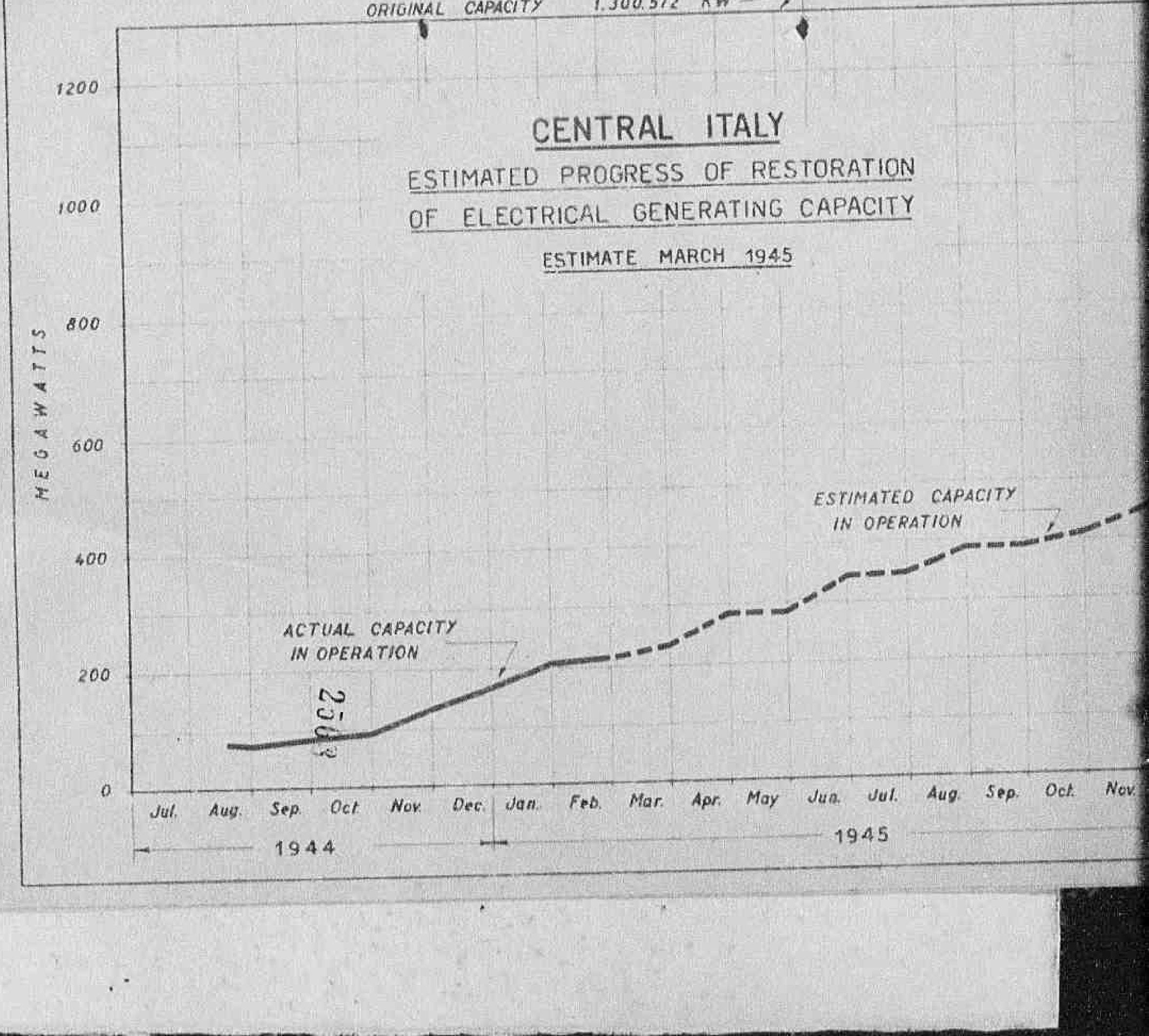

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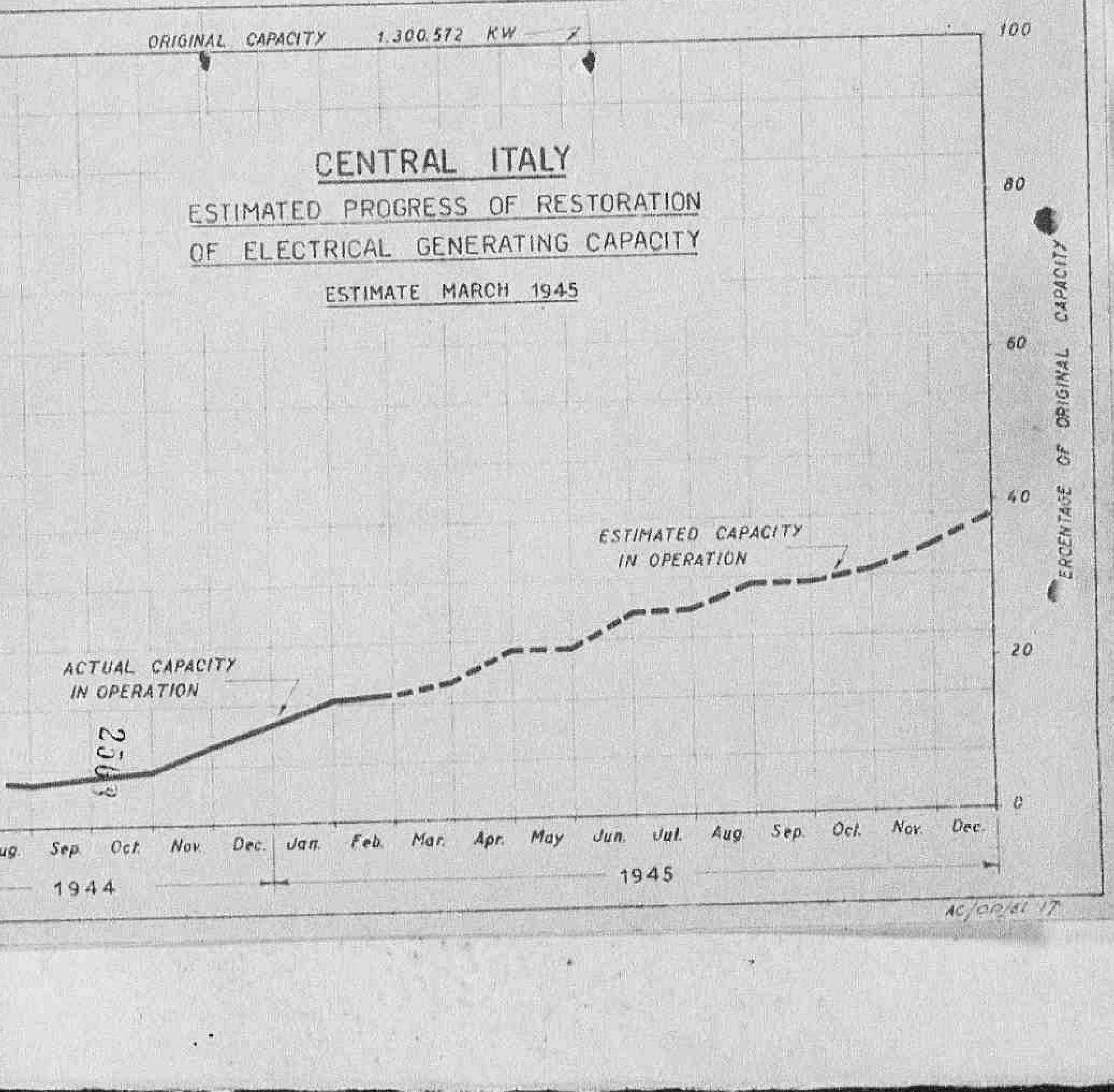
CENTRAL ITALY

ESTIMATED PROGRESS OF RESTORATION OF ELECTRICAL GENERATING CAPACITY

ESTIMATE MARCH 1945



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

Electrical Division

Schedule showing the estimated date of rehabilitation of Electrical Plants in Cen

Name of Station	Plant capacity in operation on March 45	Estimated increase in output capacity in kilowatts durin						
		April	May	June	July	August	September	Octo
ACQUORIA (SEE)	3,500	4,000						
ANVERSA P.(FF.SS)								10,
ARCI (SRE)	8,320							
BOLOGNOLA (UNES)	2,760							
CANTERNO (SRE)	10,000							
CARASSAI (UNES)	720							
CEPRANO (SRE)	3,500	5,500						
CERVARA (TERNI)	9,000							
CONDNACQUA (SRE)	9,120	- 4,560						
COTILIA (TERNI)								
DE CECCO CO.	600	2,063						
FARFA 2 (SRE)	4,500							
FONTANA LIRI (SRE)								

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

Electrical Division

...g the estimated date of rehabilitation of Electrical Plants in Central Italy

15/3/45

...r 45	Estimated increase in output capacity in kilowatts during the year 1945								
	April	May	June	July	August	September	October	November	December
	4,000						10,000		15,000
	5,500								
	- 4,560							27,000	
									1,000

6.9.42

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Name of Station	Plant capacity in operation on March 45	Estimated increase in output capacity in kilwatts during						
		April	May	June	July	August	September	Oc
PONTE CUFA (SRE)				3,800				
GALLETO (TERNI)	34,400	34,400		34,000		34,400		
LAMA DEI PELIGNI (SME)	840							
LARDARELLO 1	3,900							
LEGHORN (U.S.A.)	1,600							
LIMA (Valdarno)	1,500							
MORINO (SRE)								
NERA MONTORO (Valdarno)	13,600							
PIBASO	4,500							
PELAGALLI (Paper Mil Company)	1,000							
PESCARA (SME)								
PIANARUCCI (Comune di Tocleatino)	1,920							
PIAN DELLA ROCCA (Valdarno)	25,000							
PIANICELLA (Paper Mill)	1,870							
PONTE FIUME (SRE)				3,400				

2.022

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	Estimated increase in output capacity in kilowatts during the year 1945								
45	April	May	June	July	August	September	October	November	December
			3,800						
	34,400		34,000		34,400				
									6,000
								11,000	8,000
			3,400						

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Name of Station	Plant capacity in operation on March 45	Estimated increase in output capacity in kilowatts during April	May	June	July	August	September	Octobe
RICORDINO (Paper Mill Co.)	1,400							
ROME THERMAL (SRE)	28,000							
ROSSIGNANO (Soda Company)	6,000							
S.ELENA (UNES)	400							
S.SAVINO (SME)	800							
SALISANO (ACNA)						8,000		
SCALELLE (SRE)	4,000							
SEVENA (SRE)	1,575							
SPOLETO (Terni)	350							
SUBIACO (SRE)	3,880							
TARQUINIA (SRE)	150							
TERNI JUTE (Terni)	1,100							
TERNI STESI(")	600							
VESTA (SRE)	2,640							
VULCI (")	3,520							
SMALL PLANTS	15,551							
ADDOLORATA (Comune di Tolentino)	560							

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	Estimated increase in output capacity in kilowatts during the year 1945								
5	April	May	June	July	August	September	October	November	December
									700
					8,000				

2,350

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Name of Station	Plant Capacity in operation on March 45	Estimated increase in output capacity in kilowatts during April	May	June	July	August	September	Octo
AVETTINO (SME)		4,200						
BAGNI DI TIVOLI (SRE)	250							
CASTELLANO (UNES)				2,250				12,
CASTELNUOVO CECINA (Lardarello Co.)	12,000							
CASTELMADAMA(ACEA)				6,000				
FARFA 1 (SRE)				4,560				
GENOSA 1 (UNES)		4,000						
MANDELA (ACEA)					3,000			
MOLINA ATERNO (UNES)		500						
NORCHIA		140						
VENAMARTELLO (UNES)				3,000				
	2,338							
TOTAL	236,926	285,106	285,106	342,516	345,516	387,916	387,916	400,

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Estimated increase in output capacity in kilowatts during the year 1945								
April	May	June	July	August	September	October	November	December
4,200								
		2,250				12,000		12,000
		6,000						
		4,560						6,400
4,000			3,000					
500								
140								
		3,000						8,000
285,106	285,106	342,516	345,516	387,916	387,916	409,916	447,916	493,016

✓ Min Meeting of last approved.

✓ Col. Rainbolt
✓ Minutes of Work by

✓ Office Coach 26 - San Diacans
✓ Maj Stephens - guarding of Auto Belts.

✓ Col. Mccoach
✓ Col Rainbolt - 9000 mat as D. Water.
✓ Col Rainbolt { too large for mixtures
too small for

✓ Col Rainbolt 130 - 100 - 12 nets ordered by mil.
✓ Mccoach - Civilian Reg. will be given non-essential consideration.
✓ Thursday Reg. & canal also Reg unfilled.

Col Tupper
✓ Floating Bridge & fire unit.
✓ Col Cox - 44 for fire unit

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✓ Brig Stephens - guarding of Auto Parks.

✓ Col. Mccoach
✓ Col Rookey - 9600 motor & vehicles.
✓ Col Rookey } too large for military
✓ Col Rookey } too small for

Col Rookey 130 - ww - 12 sets ordered by mil.

✓ Mccoach - Certain Reg. will be given more consideration.

✓ Brig Reg. & cancel old Reg. unfilled.

Col Lufkin

✓ Floating R Plant & fac roads,
✓ Lat 41 - 46 for fa cent

✓ Mccoach - A/C to proceed & make a
✓ rapid survey & mark off areas
✓ more favored as to plants available
✓ & make decision on floating unit.
✓ Rookery spread.
✓ Col Lufkin - R.H. proceed & take charge of
unit.

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Col Lafferty June 6000 Kw Chevrier equipment

Ca 1 Residence / Electricity / Residence } advising commutation,

Mersack C.C.S. policy for Stations 1/4 calls an increase in rehabilitation limited by factory capacity 1/ military need and 1/ accelerate work.

Lafferty Civilian supply. being considered.

Lafferty - Southern Italy Calore. 7000 Kw damaged by enemy action. 2nd unit agreed.

Commutation agreed.

2nd unit overtime & 2nd Martin 2 Kw.

commutation refused

Kva 1500/60 Flash & 2557 Vickers

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Mr. Rusk [illegible] take an measure encourage

Leffler rehabilitation limited by factory capacity, & military manpower and it would accelerate work.

Leffler civilian supply. being considered.

Leffler - Southern Italy 2nd unit Calore. 70 to 80 kw range of heavy action.

Committee agreed.

2nd unit overtime & 2nd Marines ( ) fav.

committee affirmed

10,000 kva 15% 60 flash & 2557 Committee affirmed.

TUSCIANO

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S-th Ry wm ville Hanley

221 lam. lei 30 and also repaint.

Cefram - Pabbli lin 9500 Km 5700

amial alles ~~4300~~ 3300

ani allein 4600 4400

nau afraitig

diff - low resistion on R R.

75-% frewan trus lie nau-afraitig.

nau R. R. lins for us ad ther.

Leginal 150 kv has at tam.

R.R. + Florence-ned 120

arti 150/120

130 kv Florence trans ready in 14 days

---

future work

Torrella - Pantuc

132 kv ant % Torrdelle

work has started,

need 120 kv ant y Torralvello 2356

Torrdelle to Cachenia, contact to be let.

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Diff - Law substation on R R.

75-0/0 freeway trans line near agreatey.

some R.R. lines for use and item.

original 150 kv trans - 4 item.

R.R. + Glendale 120

Anti 150/120

130 KV Glendale trans made in 11 days

---

future work

Verdugo - Pantano

170 kv ant & Lordsdale.

work has started

need 170 kv ant & Lordsdale

Lordsdale to Cachuma. contact to be let.

Chemeans and Pantano near

Rattlesnake + Burro. two line term + Arcadia. (long term)

Inventory of all companies of High tension transformers.

Cachuma engaged in rehabilitation.

matter diff. from — Agua 184 (Plant and 2 lines)
Alamo 2674 - (plant
Vale 902
Lines 302

Ten 902
4917
Diff from

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2556

Mag Barry. Gen plant
page 7 & 8

Iron mark.
Saturation point - Gen, Iron
mach, foundry.
Iron foundry, pattern sh.
Light by D.W.

1 - 12,000 kw - 1st - Coats Mem
2 - 12000 " units to be put in at Plant
feed in 50 ~ P.B.S. Fuel

7500 kw Fuel 45%
Coal.

#2 -

8th army no Roads

B. P. sts.
coal fuel -
15 - 16 v feed by 2 Light

3700 Cochin
Mandalay
2 - 1350 kw Forti Scrap
Iron ferro mixed
200 / 1500 volts.

Plants - Ramu
250 kw

Tonenga
Light

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1 - 12,000 kw -

2 - 12000 units + be put in at Glenn

feed in 50 ~ P.B.S. Grid.

7500
400 Grid. 40%

#2 -

8th army area Roads by

B.P. site.

and Grid -

15 100 feed in ~ 14th

3200 Cochin Mountain

2 - 1350 kw Forti Scampfs

transformer mile

200 / 1500 volts.

Glenn - Ravena

250 kw

Formosa

~~600 Hydro~~

4000 kw

Engineers Reserve

for Arcana

Operation to Nicaragua 8th army

not interested.

another 1400 kw to be added.

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Maj. Ray A.F.H.Q.

Lt. Col. Roakely.

Power 1800 kw Iten Ind.
600 kw Small Kyoto
2400 kw

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1-

DISTRIBUTION

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6 - G-4 (B), AFHQ
7/8 - G-5, AFHQ
9 - Q (Maint), AFHQ
10 - Q1, Coal Section, AFHQ
11 - C.E., AFHQ
12 - D.C.E., AFHQ
13 - Dir.Mng.Prod. & Stores, AFHQ
14/16 - D.W., AFHQ
17/18 - DTR (Italy), C.C.F.
19 - Fiscal Director, AFHQ
20 - Tn. Increment, C.C.F.
21 - G.P.A., MTOUSA
22/26 - C.A.O., 15th Army Group
27/28 - HQ 15th Army Group
29 - HQ, AC
30 - Vice President, Economic Sec. HQ, AC
31/32 - Economic Section, HQ AC
33 - Industry Sub-Commission HQ AC
34 - Public Works and Utilities Sub-Commission, HQ AC
35 - C.S., TARA TC
36 - S.U.S.N.O., ITALY
37 - M.A.A.F. (A)
38 - M.A.A.F. (B)
39/42 - AAFSCO/T TO
43/44 - HQ, Nº 1 District
45 - C.E. Nº 1 District
46/47 - HQ, Nº 2 District
48 - C.E., Nº 2 District
49/50 - HQ, Nº 3 District
51 - C.E., Nº 3 District
52/55 - [illegible]

about 4000 kw in 8th Army
and advanced base 2nd 15th kv

Ole Cesena & Faenza via Forli - Forimpopoli
ole. branch & Metaboda.
under repair ... Ravenna.

being fed by small Hydro P
and small steamed Plant.
etc later reconditioning etc
in industrial plants. B.O. Cpl.

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Capt
Lt Col

and small stunted Pent.
.the later meandering ats
in industrial plants. B.P. Cyl.

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Left Right Valley Ln.
Stat. Pn - adm Com
150 R.P.
135
130
120
60

Mecanic - will open negotiations for Transfers
to
Peaceably
#1 Com. C. - officers - Units
3 - 1280 - 50 a Day
Long term jails.
#2. Ten Civ Criminals -
Lives Rescue.
Camps Monrovia.
~~Valley~~ Jobs & Regular
Simulator.

#4 other Treasuries

#5

12th April 45
Tuesday.

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Peabody

#1 a m, a. - officers - Cato

3- 1280 - 50 a 2m

Camp Com Gait.

#2 - Com Lic Inmate.

Lines - Mercer.

Camp Inspector.

~~Other~~ Jobs at Aquilo.

simulators.

#4 other Treasuries

#5

12th April 45

tuesday.

2553

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IWL/ec

S-E-C-R-E-T

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

84

Telephone
Rome 489081 - Ext. 317

15 March 1945

ELECTRICAL RECONSTRUCTION COMMITTEE (ITALY)

M I N U T E S

The fourth meeting of the Electrical Reconstruction Committee (Italy) was held at 1400 hours on Tuesday 20th February 1945 in Room 16 - 8th Floor A.C. Headquarters, Via Vittorio Veneto, Rome.

Present :

C.E. - AFHQ	- Col.B.C.SNOW - acting Chairman
A.C.	- Lt.Col.W.M.LAPPER
D.W. - A.F.H.Q.	- Maj.R.H.ROCKSBY
PENBASE	- Lt.Col.G.COOLEY
DISTRICT N° 1	- Major W.RIVETT
DISTRICT N° 3	- Major R.E.STEVENSON
M.R.S. (ITALY)	- Major J.C.KUBALE
R.N.WESTERN ITALY	- Comdr. L.E.HOGGAN

In Attendance

District N° 2	- Major J.W.COOK

21) - Minutes of previous meeting

The minustes of the previous meeting were agreed.

22) - Matters arising out of previous minutes

Lt.Col.W.M.Lapper reported that the possible use of the Alto Belice hydro unit at the Santa Maria Station, referred to in minute 17, had been looked into but was considered unsuitable. The Committee agreed that the unit should remain in storage for future use at a location for which it was better adapted.

23) - Report on progress of electrical rehabilitation 2551

(a) - A report showing the generating plants in operation in Central and Southern Italy, generating plants under repair, with estimated dates of

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

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23) - Report on progress of electrical rehabilitation 2551

(a) - A report showing the generating plants in operation in Central and Southern Italy, generating plants under repair, with estimated dates of completion and the state of repair of transmission lines was presented by Lt.Col.W.M.Lapper.

S-E-C-R-E-T

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

(b) - The operation of the Central Italy Grid System under a Master Control Centre continued to be satisfactory and considerable improvement had been effected in the maintenance of standard voltage and frequency.

(c) - Lt.Col.W.M.Lapper stated that Advisory Committees on Electrical Power were now operating in Southern and Central Italy, and similar Committees were being formed for Sicily and Sardinia. The Committees were for the purpose of advising the Italian Government on all matters connected with Electric Power, being made up of Italian civilian technical men mainly connected with the Electrical Industry. It was observed that the Committees would be available for giving advise in case of Labour unrest or other matters where supplies of electricity may be jeoparzied.

24) - Report by Lt.Col.Page - C.E.B.E.

(a) - A report on the C.E.B. portable substation equipment from the U.K. was given by Maj.Rooksby in the absence of Lt.Col.Page. Arrangements have been made for this equipment to be brought into the Theatre as Engineer Stores. It is expected to arrive March/April 1945.

(b) - Portable plant equipment
Major Rooksby submitted specifications on the 2500 KW, 50 cycle, portable steam plants being manufactured in U.K. After discussion the Committee agreed that requisitioning of any of this equipment should be done by A.C. and be justified as a civilian requirement.

The delivery date for the first two sets is to be June 1945.

25) - Membership of the Committee
Application, by N° 2 District for membership on the Committee was made by Major J.W.Cook. After discussion the Committee recommended that the membership be as follows :

Chairman - Chief Engineer A.F.H.

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

2059

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Chairman	- Chief Engineer A.F.H.Q.
Representatives	- A.C.
"	- D.W.
"	- Penbase
"	- District N° 1
"	- District N° 2
"	- District N° 3
"	- M.R.S. (Italy)
"	- R.N. Western Italy

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26) - Other business

San Giacomo Hydro Plant

The completion of the first 50,000 KW San Giacomo hydro unit (ultimate capacity 200,000 H.P.) was discussed and the Committee recommended that the project be given a high priority as an A.C. responsibility for civilian requirements. The time required for completion of the first unit was estimated to be about 8/12 months.

27) - Date and time of next meeting

It was agreed that the date and time of the next meeting be again arranged on the afternoon following the morning meeting of the Electrical Power Committee of A.F.L.R.(I) B. This has been set for Tuesday 20th March 1945

L.W. LAUGHLIN
Major, S.R.
Secretary,
Elec. Recon. Com. (Italy)

Distribution
list attached

2549

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Major, S.R.
Secretary,
Elec. Recon. Com. (Italy)

Distribution
list attached

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9 - Q (Maint), AFHQ
10 - QM, Coal Section, AFHQ
11/12 - C.E., AFHQ
13 - D.C.T., AFHQ
14 - Dir. Eng. Prod. & Stores, AFHQ
15 - D.W., AFHQ
16/17 - DTR (Italy), C.M.F.
18 - Fiscal Director, AFHQ
19 - Tn. Increment, C.M.F.
20 - G.P.A., MTOUSA
21/25 - D.C.C.A.C., 15th Army Group
26/27 - HQ 15th Army Group
28 - HQ AC
29 - Vice President, Economic Section HQ AC
30/33 - Economic Section, HQ AC
34 - Industry Sub-Commission HQ AC
35 - Public Works and Utilities Sub-Commission HQ AC
36/37 - Public Relations Br. HQ AC
38 - C.S., TARANTO
39 - S.U.S.N.O., ITALY
40 - M.A.A.F. (A)
41 - M.A.A.F. (B)
42/45 - AAFSC/MTO, A.P.O. 528 USA
46/47 - HQ, Nº 1 District
48 - C.E. Nº 1 District
49/50 - HQ, Nº 2 District
51 - C.E. Nº 2 District
52/53 - HQ Nº 3 District
54 - C.E. Nº 3 District
55/58 - C.G., RAAC
59 - PENSOUTH
60 - PENBASE (MAIN)
61/62 - ENGINEER PENBASE
63/67 - B.P.A., PBS
68 - HQ Adriatic Depot, A.P.O. 388 USA
69/78 - AFLRS, RAAC, C.M.F.
79 - File

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11/12 - C.E., AFHQ
13 - D.C.E., AFHQ
14 - Dir. Eng. Prod. & Stores, AFHQ
15 - D.W., AFHQ
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55/58 - C.G., RAAC
59 - PENSOUTH
60 - PENBASE (MAIN)
61/62 - ENGINEER PENBASE
63/67 - B.P.A., PBS
68 - HQ Adriatic Depot, A.P.O. 388 USA
69/78 - AFLRS, RAAC, C.M.F.
79 - File
80/100 - Spares

2518

S-E-C-R-E-T

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

Tel.48208
Ext. 317

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

ENI/ac

Reference : 171/PWU

2 March 45

Subject : MMS Representative on the Electrical Reconstruction Committee

To : DIRECTOR OF MILITARY RAILWAY SERVICE (ITALY)

Ref. MMS Italy - MS 1/14/2 - 21 Feb. 45 and Hqtrs N.T.O. Eng.Sec. - E-3331 - dated 27/2/45.

1) - Appointment of Major J.C.KUBALS M.B.E., R.E., above Committee is noted.

2) - The fifth meeting of the Committee will be held at 1400 hours on Tuesday 20th March 1945 in Room 16 - 8th Floor AC Hqtrs., Via Vittorio Veneto, Rome.

3) - D.M.R. (Italy) C.M.F. is now on the mailing list and Maj.Kubals has been receiving notices and publications.

L.W.LAUGHLIN
Major, R.E.
Secretary
Elec.Recon.Com.(Italy)

cc : HQTRS N.T.O. MMG.5320. - APO 512

1 enclosures
copies of letter 2/3/45

20 Feb 41 -

Minutes approved

Desk No
~~Districts~~ British
Amend No 7 & read Desk 1, 2, 3
as altered and as recommended

---

no other items arising out of minutes

Report by Lt Col. Left on Airbase
- Engineering
1- Engineering
2- Plant loaded ~~alcbal~~ calculated
1,964,000
1,992,000 mp day
3- Allied Plant maintenance
4- advising Committee
5- Strikes (committee under 4 should be used)
6- Protection & mutual
(a) committee is formed
(b) meeting regularly &
7- monthly progress report
(a) Maj Bovey.
25/6
error Aerodrome
snow - rolling steel plates - 15 April
Safety measures
(b) Gen Engineering

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no other items
minutes

Report by Lt Col. Kapp on Robat.

1- Foregoing
2- Plant loading ~~about~~ calculated
1,964,000
1,992,000 mfg day
3- Zallea Plant maintenance total
4- advising Committee
5- Strikes (committee under stand
to end)
6- Metallurgical & smelting
(a) committee is formed
(b meeting regularly &
monthly progress report
7- (a) Maj Bobby 25/6 15 April
error. Aventine
manu- making steel plates -
quality inferior.
(b) San Giacomo obtained.
200,000 lire
no work being done
1- turbine - 1 elec. set
mill complete 70,000 with more Dies for
12 months. them
Shaft 1/3 completed - 3000 tons unmt. castings
8 months & limited.
cement for Galileo
machinery unfound & to be made

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

2000 KPa in 12 months.
Providenza no recommendation.
1200 lw four at Eglato for special cement.
600 tons for month.
570 lw on jobs for construction
major Revolt. Labor Faculs (treatments)
Recommended as high priority for
renewal Rehabilitation by A.E.

No 2 - Maj -
Santa Maria. D.W not included & do not list.
(lw 5 tons recommend)
and Belize - lead. & for after.

~~Retest Jan~~

~~Retest Feb~~

May Rentas transmission line
765 km four wire.
600 miles conductor.
- Installed double feeds
Plane 2 - 400 kv circuit breakers
Rame 2 four terminals
terminal 2 four each
Engineering 60 kv M. km + Papagino
Negroes Torre de Quinto 2 two 2 Kraft wire plan
8400 volt or 8400 volt Bus Rame

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No 2 - maj -

- Santa Anna. Bill not included (or 5 cts included) & anything
and Belen - load & for afford.

~~Text Box~~

~~Text Box~~

maj Penlan transmission line
26 - km 4 wire unfenced.
one ends. operation.
- Installed double feeds
Plaza 2 - 12½ ; one transformers
Plaza 2 - 4 km tandem
Tasalé 2 - 4 km each
Engrg 60 kv M. in ; Pafagio
new. inventory.
Research Torre de Queta 2 wood 2 steel poles
8400 volt on 8400 volt Bus Plaza
3 - trans lines - 2 - 25,000 circuits Zaleb #1
1 - 4000 (30-60) out present.

Future plans
60 volts
120 } proposed next 2 trans lines { 2 in 1 pole
150 }
150 to Plaza
120 to R R
120 to Plaza - will be clear in yesterday
Florence trans. meeting

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Power from Tenn. 150 & Ark. dam & 120
steam elec & R.R. or Alcoa.

5000 KVA condenser at Prato & Alcoa
& help Alcoa making, going about N.T.L.

Chem. Pantex pumps 15 & 20 inch
Pantex Mercha. all pumps not all yet available.

No 2 West on manly report
Do if possible & indicate amt owned
and by mil. & Italian labor.
cost of live
heavy transport by mil unit.
each - campanie & contractors,
Panama & other area
trans - med mil help.

may Kubota
econ & R.R. has been very good.
all of Feb.

Local Laffer
trouble with 4/5 & more.
may Merit - making eyes.

25 4

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Pantri Merchan. all pumps not all yet availab.

No 2 West an months report

do if possible & indicate amt turned
out by mil. & Station labor,
sent of Civ
Heavy transport by mil outlet.
each - companies & contractors,
Remarks & other aven
of Ala
terms - need mil help.

Maj Kinkaid
Service & R.R. has been very good
all y Gds.

Local Laffer
Trouble with 4/5 ~~A~~ men. 2514
maj Rivett - military yes.

4 Col Page report
A.C.
D.W
P.O.S
Dist 1
Dist 2
Dist 3
MRS

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

Main point

D.S. concerned with request of C.I.B. remain as were left for safety to be moved forward as arms move forward with Bailey Bridge.

affix I with ordered details
Lt. Mark & April (
1st sets with arm affix.

Re stand at Conchelle and raised safely.

2 affix steam plants 250 - 500
mobile - Russia
mobile Boiler 20 Cars
Condensing plant
20 sets affixed
15 - air free
details as aff. 2

500 not required
250 may be useful and my. thought
3-5 channels. and not responsible. - offered for evacuation 2-22 early June - next to follow

diesel - 127 kva Camp (my 152) 50 -
127 at 42 ~ - mobile
12 have been ordered - completed.
sets affix

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1st sets unit arrive afrit.

Re stored at Cowichella and raised properly.

2 offered steamplants 2500 - 500
available - Russia
available Baltic 20 Can
Condensing plant
20 sets offered
15 - air fric
details on offr 2

500 not required
2500 may be useful and reg. through
3-5 channels. and not unfavourable. - offered for earliest
delivery 2-3 February June - next to follow

desired - 127 kva cap (reg 152) 50 -
127 at 42 ~ - suitable
12 have been ordered - completed.
deliv - 1st unit afrit

2543

Local staff A & E will take into
Reg 2500 steam units.
floating Dr. plant - June delivery.

~~Floating~~ Dr Plant not fit to be classified by H.E.L.R. Board. Can. Hogan agrees.

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

Local Cooling

Railway Plant. - small factory for Rest S.C.

60 tons clean fresh water for domestic purposes 3000 kW max. would give 10,000 kW of 2m. coil. - sufficient cooling water summer and winter.

(a) Boiler - fires 38 kg.

(b) 3000 sch at 9 kg. 230°C

with Burma

Cooling security Foolmills plant.

Initiated by A.M.G. Burma.

Dep 2 - C - 6 adm 8

O.B.S. interpret as being A.C.

Leffingwell with type & A.C. unit & orange & lemonade available.

committee agrees.

R.W definite (rehabilitation) (operational reasons) in mil - persons.

E + M. Hq H.Q. No 2 Dist Tel. Ext 52

MAJ J.W. Cook — No 2 Dist phone 66143 Ext 54

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

(b) 3000 each at 9 lbs.

Air Branch

Cairo security Tadwells plant.
Initiated by A.M.A. Libya.

Alp 2-C-6 adm s/c
S.B.S. interpts as Cairo A.C.
Leffer- with A.C. & arrange
for conference & be made available.
committee agrees.

D.W definite (rehabilitation) (operational effort
by mil - pending.

E+M. Hq H. No 2 Dist
Tel. Ext 52

Maj J.W Cook - No 2 Dist phone 66145
Maj R.H. Rooksby D.W AEW 25.2 Dist 54

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

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

Tel. 473806 HEADQUARTERS ALLIED COMMISSION VSR/lam
APO 394
Public Works and Utilities Sub-Commission

Reference: 156/PWU 21 Feb. 1945

SUBJECT : Grounding of Transformer Neutral

TO : Terni, Società per l'Industria

1. Reference is made to your letter dated 17 February 45, file 427, subject: Neutral to Ground Connection.

2. At a meeting of the Protection Sub-Committee of the Advisory Committee on Electric Power (Central Italy), it was agreed that the neutral of the two 150 KV transformers, now being prepared at Galleto would be grounded. It was further agreed that there would be no grounding of transformers of 60KV or less for the present.

3. In consideration of the agreement mentioned in the foregoing, it is requested that a ground connection be provided for the two 150 KV Galleto transformers.

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

C.C.: S.R.E.
A.C.S.A.
U.S.T.S.
Colt Valdarno
Secretary Advisory Committee
for Electric Power

2541

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

Tel. 489081 - Ext. Nº 317

P.W. & U. S/C, A.C.
Electrical Division

File : E.R.C.

12 February 1945

ELECTRICAL RECONSTRUCTION COMMITTEE - AGENDA

The fourth meeting of the Electrical Reconstruction Committee will be held, at 1400 hours on Tuesday 20th February 1945, in Room 16 on the 8th Floor, A.C. Headquarters, Via Vittorio Veneto - Rome.

1) - Minutes of the third meeting, of the Committee held on 22 January 1945.

2) - To consider any matter arising out of the meeting of the Committee held on 22 January 1945.

3) - To receive a report from A.C. concerning the progress of electrical rehabilitation.

4) - To receive a report from Lt.Col.A.W.Page M.B.E. concerning procurement of C.E.B. emergency equipment and particulars of portable plants available in U.K.

5) - Any other business.

6) - Date and time of next meeting.

L.W.LAUGHLIN
Major, S.R.
Secretary,
Elec. Recon.Com.Italy

2540

Distribution
C.E. - A.F.H.Q.
D.W. - A.F.H.Q.
A.C. - Electrical Division, P.W. & U S/C

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

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2) - To consider any matter arising out of the meeting of the Committee held on 22 January 1945.

3) - To receive a report from A.C. concerning the progress of electrical rehabilitation.

4) - To receive a report from Lt.Col.A.W.Page M.B.E. concerning procurement of C.E.B. emergency equipment and particulars of portable plants available in U.K.

5) - Any other business.

6) - Date and time of next meeting.

L.W.LAUGHLIN
Major, S.R.
Secretary,
Elec. Recon.Com.Italy

2540

Distribution

C.E.	- A.F.H.Q.
D.W.	- A.F.H.Q.
A.C.	- Electrical Division, P.W. & U S/C
C.E.	- Penbase
M.R.S.	- CMF
C.E.	- District N° 3
Flag Officer	- R.N. Western Italy

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ALLIED FORCE HEADQUARTERS
APO 512

ADMINISTRATIVE MEMORANDUM)
: 13 February 1945
NUMBER 7)

Power Rehabilitation I
Dress of Civilian Employees II

1

I - POWER REHABILITATION

Paragraph 2 b (1), AFHQ Administrative Memorandum Number 58, 1944, is rescinded and the following substituted therefor:

"b" Electrical Reconstruction Committee.

(1) The Central Electrical Board, Italy, is dissolved. There is hereby created on Electrical Reconstruction Committee (Italy), with membership as follows:

Chief Engineer AFHQ (Chairman)

Representatives of: AC, DW, PBS, District No. 1, District No. 3 MRS (Italy), and R.N.

It is requested that AC, DW, PBS, District No.1, District No. 3, MRS (Italy), and RN advise AFHQ of representatives selected for membership."

II - DRESS OF CIVILIAN EMPLOYEES

1. Instances have been reported of the wearing of a mixed dress of civilian clothing and military or service uniform by various civilian employees who are permitted to wear uniform. These personnel are often mistaken for members of the United States and British Forces bringing discredit to those Forces.

2. Civilian employees will not, therefor, wear any article of civilian outer clothing with any military or service uniform which they are permitted to wear.

BY COMMAND OF FIELD MARSHAL ALEXANDER.

C.W. CHRISTIANSEN
Colonel, AGD,
Adjutant General.

DISTRIBUTION:
"C"

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1931

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

(4)

ENGINEER SERVICE
PENINSULAR BASE SECTION
APO 782

Presented by Lt Col Cooley 22 Jan 45 GC:rp
19 January 1945

SUBJECT: Inspection of Santa Maria Hydro Electric Station (572-411, Italy 1:100,000)

Inspection of the power station was made 13 January 1945 by Lt.Col. C. Cooley, Engineer Service, PBS and Major F.W.H. Tuckett, 543rd Electrical and Mechanical Company, R.E. Information regarding the reservoir, dam and flow lines was obtained from the Chief of the Station, Sr. De Sordi. The station is the property of Società Bolognese di Elettricità and is connected to its' 50 Kv transmission system.

Reservoirs, Dams and Flow Lines.

A Masonry dam 156 meters long with maximum height of 33.5 meters is located on the Brasimone River above the plant. Full lake elevation is 829.5 meters above sea level. Storage capacity is 7,000,000 cu:m: The dam and control gates (which are of the butterfly valve type located in the exit pipe) are reported to be undamaged.

The pipe line consists of a single 3600 meter section of 1200 mm. pipe extending from the dam at an elevation of 805 meters to a surge tank. From this surge tank a single steel penstock 800 mm. in diameter and 900 meters in length drops to the power station. All this is said to be undamaged.

Power Station.

The elevation of the tail race is 509 meters giving a maximum static head of 320 meters.

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The principal items of the installation consisted of:

a. 3 - 2000 Kw (2300 Kva), 5000 volt 3 phase, 42 cycle, 420 rpm, A.E.G. generators direct connected to Escher Wyss, impulse, horizontal shaft turbines.

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One of these machines was suitable for 50 cycle operation.

b. 2 - 110 volt, 700 ampere exciter direct connected to horizontal shaft impulse turbines.

c. 3 - 2500 Kva, 5/50 Kv, 3 phase, 42 cycle, water cooled, transformers.
1 - 2000 Kva, 5/15 Kv, 3 phase, 42 cycle, water cooled transformer.

d. Switchgear of 5.15 and 50 Kv.

e. 1 - 18 ton traveling crane in turbine room
1 - 14 ton crane at end of transformer room

To entire roof over the turbine room and the outer wall which supported one of the crane rails have been entirely demolished by enemy charges.

The 18 ton crane was twisted by falling and blasts, but can be repaired. The 14 ton crane is undamaged.

Each of the generators and turbines were severly damaged by enemy charges.

Bearings, supports and shafts are damaged to various degrees. All of the shafts would require straighting, if they can be reused. Generators would require complete rewinding and probably replacement of part of the electrical steel in both the rotors and stators. Turbines would require replacement or extensive repairs to casings and rotors. Hydraulic governors are probably not repairable.

The two exciters and their turbines are believed to the damaged beyond repair.

Each of the four transformers has a hole torn in the case by demolition charges. One or more coils was damaged in each. However, oil had been drained previously and no fire resulted. These transformers can be repaired within a month or two and require only a relatively small amount of welding and insulating materials plus transformer oil.

Practically no spare parts are available at the station.

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Switchgear is practically undamaged.

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Conclusions.

Due to the extreme damage to the turbine room superstructure and the machines it would not be possible to restore a machine in less than six or eight months. A more detailed inspection may indicate a much longer period.

Although the plant was damaged 3½ months ago, practically nothing has been done to clean it up or prepare it for rehabilitation.

Because of the excellent condition of the hydraulic system together with its storage capacity, this station should be rehabilitated as a long term project. Consideration should be given to moving a unit with governor from some other station if one of suitable characteristics is found to be available. In either case, a large amount of work is involved and at present no skilled personnel is available at the station.

C. COOLEY
Lt. Colonel, C.E.

Tel. 489.081 Ext.317 LWL/ms

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

Ref. 17V /PWU 15 January 45.

Subject : Electric Reconstruction Committee.(Italy)

To : Flag Officer Western Italy
Att. Comdr. L.H. Hoggan R.N.

1. Attached is report on electrical situation Central Italy which was presented by A.C. at the meeting of the Committee held on 18 Dec. 44.

2. This pertains to paragraph ten of the minutes of the meeting dated 4 Jan. 45 which has already been forwarded.

L.H. LAUGHLIN
Major R.A.
Secretary
Elec.Recon.Com. Italy.

2535

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Capt Langfeldt

WML/ac

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

8 Jan. 45

Reference : 358/PWU
Subject : Electricity Control - Central Italy
To : DISTRIBUTION BELOW

1) - In the first phase of the electrical rehabilitation work in Central Italy it was inevitable that, as each generating unit became available it would be immediately put into service and quickly become fully loaded. The result of this is that to-day we find ourselves with generating plant running overloaded and at low voltage and frequency.

2) - While this arrangement was satisfactory, and in fact advisable in the first phase by allowing electrical energy to be given to the greatest number of consumers, all of very high priority with civilian demand being kept to the absolute minimum, it is considered that a continuance of this type of operation, now that more and larger generating units are becoming available, can only lead to disaster should an emergency condition arise in the system.

3) - In order therefore to secure a supply of electricity in which the voltage and frequency will be maintained at the specified amount and also to provide against the breakdown of the system in the event of an emergency condition arising, the following arrangements are being put into force on Saturday 20th January 1945.

4) - (a) The electrical system of the :

"Terni" Società per l'Industria e l'Elettricità
Società Romana di Elettricità
Azienda Comunale Elettricità ed Acque

will be interconnected and the frequency of supply of this system will be maintained at 45 cycles for the present. (It is proposed to interconnect with the Società Unione Esercizi Elettrici (UNES), Selt-Valdarno and the Società Meridionale di Elettricità systems at a later date.

(b) A sufficient spare margin of generating capacity will always be in operation in order to prevent a complete collapse of the system should a breakdown of the largest generating unit occur.

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(b) A sufficient spare margin of generating capacity will always be in operation in order to prevent a complete collapse of the system should a breakdown of the biggest generating unit occur.

(c) A Master Control Centre will be established in the offices of the Società Romana di Elettricità - Via Poli N. 14 - Rome.

5) - Dealing with the above, items 4(a) and 4 (b) are self explanatory and the details are being worked out by the Electrical Division of the Public Works and Utilities Sub-Commission of Allied Commission in conjunction with the Italian Government and the electrical companies concerned.
Item 4(c) the Master Control Centre, is extremely important

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since the success in the operation of the whole system depends entirely on the efficiency of the Master Control. The following is an outline of the arrangements being made.

(a) The Master Control Centre at Via Poli will be directly connected by telephone to each of the main centres of generation on the system.

(b) There will be two control engineers on duty at all times and each of the companies concerned are being asked to supply suitable men for this work. The control engineers, while being employed by their respective companies, will be directly responsible to a Chief Control Engineer to be appointed by the electrical companies. The Electrical Division of A.C. will maintain a supervisory control over all electrical operational work.

(c) The control engineer on duty will be responsible for the system operation. He will have complete control and under NO circumstances will any person be allowed to give orders to generating stations connected to the system which will interfere with the operation of the plant or system. Instructions in connection with the operation of all switchgear on the high voltage system, or that portion which will affect the operation of the generating stations, are included in this.

(d) The Control Engineer will record each hour the output of electricity from each generating station on the system, loading of main transmission lines and interconnectors, enter all switching operations and abnormal occurences. A copy of the previous days log record will be delivered by hand each morning to the Chief Electrical Division A.C.

(e) Since by interconnecting the electrical systems and putting the control under one authority will greatly increase the efficiency of the system and give a better and more reliable supply, the danger from enemy action of the Master Control Centre, an integral part of the system, must not be overlooked. Arrangements are therefore being made for an emergency Control Centre situated at the office of the Electrical Division of A.C. so that the system operation can be taken over without interruption in case of emergency conditions arising.

(f) In the case of extreme emergency due to breakdown whereby the Control Engineer is unable to maintain the standard voltage and frequency he will give instructions for cutting off supplies and for the restoration after the emergency has passed.
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2538

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(f) In the case of extreme emergency due to breakdown whereby the Control Engineer is unable to maintain the standard voltage and frequency he will give instructions for cutting 2533 off supplies and for the restoration after the emergency has passed.
In order that the high priority loads may be maintained during an emergency he will be supplied with a list of switches and their locations which may be opened during the period of the emergency. This list will be compiled by the Electrical Division A.C. in conjunction with the Chief Engineer of the Army Districts and the CRE of RAAC.
To further safeguard against mistakes being made in cutting off supplies in emergency, the switches at the power stations which control the circuits to be taken off will be

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marked thus :
(1) Red Label - First line emergency circuits
(2) Green Label - Second line emergency circuits.
Each of these labels will be issued, located and signed by the Chief Electrical Division of A.C.

6) - The allocation of all electrical energy is carried out by the Electrical Power Committee of the Allied Force Local Resources Board (Italy). This Committee will be asked at the next meeting to be held on 22 January 1945 to review the consumers of electricity already made, and to see whether, in the light of the new interconnection arrangement whereby a more equal distribution of energy will be possible, there are any consumers of higher priority still on the waiting list and for which a supply should be made available.

To summerize

(a) - The electrical generating stations in the Terni, Rome and Tivoli areas will be connected together through the Grid System as from Saturday 20th January 1945.

(b) - This system will operate at 45 cycles.

(c) - The operation of the generating stations will be directed from a Master Control Room. The operation will be carried out by Italian Engineers with supervisory control by Electrical Division A.C.

(d) - Since stations operating in parallel are interdependent, operational instructions will be given only by the control engineer.

(e) - A spare margin of capacity will be maintained to meet unforseen contingencies and to allow of the correct voltage and frequency being maintained.

(f) - The Control Engineer will give instructions to cut off supplies to meet emergency conditions.

(g) - The Electric Power Committee of AFLRB(I) will be asked to review allocations already made for electrical energy.

(h) - At a date to be notified the Leghorn-Florence and eastern areas will be brought into the pooling scheme. Technical details in connection with frequency are being studied for these areas.

W.M.LAPPER 2532
Lt-Colonel
Chief Elec.Div.

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

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Lt-Colonel
Chief Elec.Div.

Distribution

C.E. - AFHQ
Dir. Eng. Prod. & Stores, AFHQ
C.E. - District 1

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

C.E. - District 2
C.E. - District 3
Eng. - Penbase
D.M.R.S. (Italy)
C.R.E. - R.A.A.C.
A.C. - Economic Section
A.C. - Agriculture S/C
A.C. - Commerce S/C
A.C. - Finance S/C
A.C. - Food S/C
A.C. - Industry S/C
A.C. - Labour S/C
A.C. - Navy S/C
A.C. - Shipping S/C
A.C. - Transportation S/C
A.C. - Public Works and Utilities S/C
A.C. - Mining Section
A.C. - Priority & Movements Section
A.C. - Requisition Section
A.C. - Supply & Resources Section
Secretary Electric Power Committee AFLR(I)B
REGIONAL COMMISSIONER SOUTHER REGION
(Attention Reg.Eng.) LAZIO-UMBRIA REGION
MARCHE-ABRUZZI & MOLISE REGION
TOSCANA REGION
EMILIA REGION
LIGURIA-PIEMONTE REGION
LOMBARDIA REGION
VENEZIA REGION

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

A.C. - Agriculture S/C
A.C. - Commerce S/C
A.C. - Finance S/C
A.C. - Food S/C
A.C. - Industry S/C
A.C. - Labour S/C
A.C. - Navy S/C
A.C. - Shipping S/C
A.C. - Transportation S/C
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EMILIA REGION
LIGURIA-PIEMONTE REGION
LOMBARDIA REGION
VENEZIA REGION

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

COPY

R E S T R I C T E D

ALLIED FORCE HEADQUARTERS
APO 394

AG/675/171 GDS-O 31 October 1944

Subject : Conservation of electric power facilities of Italian Utilities

To : ALL CONCERNED

1) - A critical shortage of electric utility service exists through out wide sections of occupied Italy. In order to conserve the limited supply of electric power available, and in order to meet the increasing military and essential civilian requirements, it is necessary that all possible means be utilized to reduce non-essential electric consumption from utility sources, by both military and civilian users in Italy.

2) - The following steps will be taken to reduce loads on commercial electric systems :

(a) - LIGHTING

(1) Offices - No lights will be burned during daylight hours except in cases where natural lighting is insufficient for proper working conditions. Wattage of lamps will be limited to a minimum requirement, and fixtures will be located for most economical utilizations of light source.

(2) Halls and Stairways - Lamps in halls, corridors and stairways will be of the smallest wattage commensurate with safety, and a minimum number will be illuminated.

(3) Hotel rooms, and private living quarters - No more than two (2) lamps per private living room or one (1) lamp per bath room will be permitted to be connected. No more than one (1) lamp per private living room will be illuminated at the same time. The lamp bulb will not exceed 60 watt rating. Lighting, when permitted in living tents of military personnel, will be limited to one (1) lamp of 60 watt rating in pyramidal or small wall tent.

(4) Public Space in hotels, cafes, clubs and public bldgs Reduce wattage to a bare essential commensurate with area, use and occupancy. Discontinue all electric signs or display lighting.

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

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(5) Other Military facilities - Lighting of mess halls, kitchens, work shops, etc. will not exceed the following scale :

Type of Accommodation	Watts per sq.ft.
- Store Room, Latrine	0,2
- Mess halls, Post Exchange,) Hospital Ward, Bath House)	0,3
- Kitchen, Recreation Building	0,5

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

(6) Outdoor Areas - Guarded areas, POW enclosures, storage areas, streets, etc., will be lighted only in accordance with necessity.

(7) Turn off of all lights not in use - Post signs conspicuously and make every individual economy-minded in use of electricity.

(b) - HEATING AND COOKING

(1) Electric heating will be permitted only in essential industrial processes engaged in production for the military effort, and in hospitals for the treatment of patients.

(2) No electric cooking will be permitted.

(c) - POWER

(1) The use of electric power will be limited to :

a) Those industries contributing directly to the military effort or essential to the civilian economy

b) Installations necessary to sageguard public health.

(2) Elevators will be operated by electric power only for movement of hospital patients or for heavy freight

(3) No electric motors will be allowed to idle for extended periods.

(d) - ELECTRIC RAILWAY POWER

Will be utilized only on approval by the Electric Power Committee of the AFLR (Italian Board.

(e) - ELECTROLYTIC PROCESSES AND ELECTRIC ARC FURNACES

Will be utilized only on approval by the Electric Power Committee of the AFLR (Italian) Board.

3) - Military Commanders will be responsible that these instructions are carried out within their jurisdiction of military installations, and civilian authorities will be required to enforce similar measures in those civilian installations which are allowed to receive electric service.

By command of General WILSON,

2529

(Sgd) M.V.ROBERTS
Colonel, ACD
Adjutant General

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

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By command of General WILSON,

2524

(Sgd) H.V.ROBERTS
Colonel, ACD
Adjutant General

Declassified E.O. 12356 Section 3.3/NND No. 785049

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

Tel: 478.906 HEADQUARTERS ALLIED COMMISSION VSR/lam
APO 394
Public Works and Utilities Sub - Commission

Reference: 158/PWU 2 January 1945

SUBJECT : Rehabilitation of Anversa Principe Generating Station and Connecting Transmission Lines.

TO : Director, Military Railway Service, Transportation Increment, CMF.

1. This letter confirms the meeting held in the office of Major Frank Kubale on the morning of 22 December between Major Kubale, representatives of the Italian State Railways, and officers representing the Public Works and Utilities Sub-Commission, Allied Commission. The purpose of the meeting was to discuss the procedures for rehabilitating the Anversa Principe Generating Station and the high tension transmission lines connecting it to Rome. Those present at the meeting besides Major Kubale were Eng. Albertazzi, Donati and Virgili of the Italian State Railways, and Major E.J. Barry and V.J. Renton of the Allied Commission.

2. The meeting resulted in the following decisions:

a. That the Public Works and Utilities Sub-Commission of the Allied Commission is interested in the rehabilitation of the Anversa Generating Station, and the two Anversa-Rome transmission lines and is in a position to lend assistance in supervising the work.

b. That the rehabilitation work will be done by the employees of the State Railway.

c. That the maximum supervision available from the Allied Commission will be the part time of one officer.

d. That the Allied Commission will give all possible assistance in procuring supplies. It is expected however that all available materials in the store rooms of the State Railways will be used before

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

demands are made from other sources. It was pointed out that much of the supplies will of necessity be obtained from Italian Government channels.

g. That all correspondence between the Italian State Railways and the Allied Commission will be routed through Major Frank Kubale.

f. That the State Railways will prepare a list of materials required for the Anversa Station, and the Anversa - Rome lines.

2. It is recommended that the repair of the Anversa Station, together with the two transmission lines be so scheduled that operation of these facilities may begin by 1st June 1945, or as soon these after as possible.

3. May we have your confirmation on the foregoing ?

W.M. LAPPER
Lieut-Colonel
Chief Electrical Div.

C.C. Chief Engineer, AFHQ
Electrical Reconstruction Committee
Transportation Sub-Commission A.C.
Regional Commissioner, Lazio-Umbria Region
(Att. Regional Engineer)
Regional Commissioner, Marche -Abruzzi Region
(Att. Regional Engineer)
Major R.A. Bell, P.W. & U. Sub-Commission

2527

Tel: 489081 SECRET VSR/lam

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

26 Dec. 44

Reference: 171/PWU

Subject : Discussion of Report, Engineer Appreciation of Electricity Supply, North Italy.

To : CE, AFHQ.

In accordance with your telephone instruction to Lt.Col. W.M. Lapper, the following comments are submitted in connection with the recommendations included in the report entitled Engineer Appreciation of Electricity Supply, North Italy prepared by the A.D.W. (E. & M) of AAI.

(32) - It is agreed that present indications are that the North Italy supply will be largely dependent upon the state of high voltage transmission lines. To that end, information has been and will continue to be collected, studied and disseminated by the Allied Commission, in order that the detailed plan, mentioned in paragraph 32, may be prepared and carried out.

(33) - The existance of the portable substation equipment in the U.K. was reported by Lt.Col. Lapper after his recent visit there and we have vigorously advocated that the equipment be brought to Italy.

(34) - It is agreed that crews to erect the portable substation equipment should be trained, as they were by the CEB in England, and that they should be military rather than civilian personnel.

(35) - It is not believed advisable at this time to decide definitely upon the location for the 25,000 KW, 50 cycle floating power plant as this may depend upon operational developments. Genoa woul be one logical place owing to port facilities and also being the center of an important but relatively small 50 cycle area.

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

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(32) - It is agreed that present indications are that the North Italy supply will be largely dependent upon the state of high voltage transmission lines. To that end, information has been and will continue to be collected, studied and disseminated by the Allied Commission, in order that the detailed plan, mentioned in paragraph 32, may be prepared and carried out.

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2526

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(37) - Details of voltages and frequencies have already been tabulated and circulated to interested services.

(38) - It is agreed that the fullest possible data concerning important electric transmission lines should be obtained and this is being done in conjunction with the other services.

(12) - Reference Item 12 of the Report.
This is an important Item and embraces both the military and civilian requirements, and the plant already in the theatre or expected shortly are reviewed be low:

(a) Penbase have eighteen diesel driven portable units. Each unit is of 400 KW capacity (at 50 cycles) and is suitable for 42, 45 or 50 cycle operation.

(b) A.C. have on order 15,000 KW of portable steam driven units as follows:

1	2,000 KW unit
1	3,000 KW unit
1	4,000 KW unit
1	6,000 KW unit

Each of these units are made up of 1,000 KW steam turbines which are so arranged to operate as complete units. They are complete with oil fired boilers and are expected in this theatre by March 1945. All 50 cycle units.

(c) A.C. have on order one floating power station which will be complete in itself and ready to connect direct to the high voltage system. This plant was originally designed for 60 cycles and has been altered to operate at 50 cycles.

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(d) Items (b) and (c) although ordered by A.C. have since been accepted as a military requirement.

(e) The total capacity of portable plant is as follows:

	Number of Units	Capacity in Kilowatts
Now in this theater (Diesel Sets)	18	7,200
Expected by 1 March 1945 (Steam Sets)	4	15,000
Expected by 1 April 1945 (Floating plant)	1	25,000
Total Portable Plant ...	23	47,200

In addition to the above, information has recently been received that further portable plants in the form of rail mounted sets and diesel plants are available in U.K. This information has been forwarded to D.W. AAI with a suggestion that Lt.Colonel Page now in U.K. be requested to examine them and bring back technical particulars. It is understood however that the first of these plants cannot be made available until June 1945.

To summarize therefore.

a. By 1st April 1945, there will be 47,200 KW of portable plants made up of 23 units and hence usable in 23 separate locations.

b. It is believed that due to the unavailability of further portable plants, the units mentioned above will of necessity have to meet the emergency power requirements until such time as the existing generating and transmission facilities can be repaired. A close liaison is being maintained with SHAEF in order to learn whether any plant intended for France may be diverted to this theatre.

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2524

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(c) - The additional plants which cannot reach Italy before June 1945 should be considered as a civilian requirement.

(d) - Although there are areas of different frequency in Italy the small capacity portable plants will be operating in their own separate localities isolated from the transmission grid and the question of frequency therefore will not arise. In the case of the floating power plant this unit is designed for 50 cycle operation and for best results should be connected to a 50 cycle system or used with frequency changers.

W.M. LAPPER
Lieut - Colonel
Member of Elec. Recon.Committee.

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Spare Copy

(Ltr, Hq Allied Comission, dated 23 December 44, Subject: "Draft Minutes - Electrical Reconstruction Committee Meeting", Reference 171/PWU).

1st Ind.
Engineer Section, AFHQ, APO 512, U. S. Army,

TO: Headquarters Allied Commission, APO 394, U. S. Army.
(Attn: Public Works and Utilities Sub-Commission).

1. Transmitted herewith are two copies of draft of minutes of the meeting of the Electrical Reconstruction Committee held in ROME on 13 December 1944 and two copies of the suggested mailing list.

2. The minutes of the meeting and the suggested mailing list (edited with respect to PENBASE MAIN and PENBASE SOUTH) have been approved by the Chief Engineer, AFHQ, for publication and distribution by the Secretary of the Committee.

For the Chief Engineer:

B. C. SNOW,
Colonel, CE,
Deputy Chief Engineer, (A) AFHQ.

Inclosures as follows:

2 - copies draft minutes (1 copy w/d)
2 - copies mailing list (1 copy w/d)
(Copy Progress Report and Transmission Line Map w/d).

2521

DRAFT MINUTES

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

ELECTRICAL RECONSTRUCTION COMMITTEE (ITALY)

The second meeting of the Electrical Reconstruction Committee (Italy) was held at 1400 hours on Monday 18 Dec. 44, in Room 16 - 8th Floor A.C. hqtrs - Via Vittorio Veneto - Rome.

Present

C.E. - A.F.H.Q.	- Maj.Gen.D. McCOACH - Chairman
A.C.	- Lt.Col. W.M.LAPPER Chief Elec.Div., P.W. & U. S/C, A.C.
PENBASE FORWARD	- Lt.Col.G.COOLEY C.E. Adv. Eng.Off. P.B.S.
DISTRICT N. 3	- Maj.R.E.STEVENSON
M.R.S.	- Maj.J.C.KUBALE

8) - Minutes of previous meeting

The minutes of the previous meeting were agreed.

9) - Matters arising from previous minutes

The Chairman stated that there appeared to be some misunderstanding regarding the procedure to be adopted in sending forward requisitions. He confirmed that requisitions for electrical plant would be subuitted by Allied Commission in the usual way with proper justification, quite apart from military requisitionsfor plant required for operational purposes. The Committee agreed to this procedure .

10) - Report from A.C. and future planning

A report showing the generating plants in operation in Central Italy generating plants under repair and estimated dates of completion was presented. Graphical data of generating plant and transmission line repairs was also presented. It was observed that the plant repairs compared favourably with the estimates.

A transmission line diagram showing the lines in operation and lines under repair was also presented and Lt.Col.Lapper explained that A.C. were at present arranging with the Italian Government and the electric power companies to standardize the frequency of supply as this would avoid duplication of transmission lines and allow greater security by pooling the generating facilities. A.C. hoped

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

C.E. - A.F.H.Q. A.C.	-	Maj.Gen.D. McCOACH - Chairman Lt.Col. W.M.LAPPER Chief Elec.Div., P.W. & U. S/C, A.C.
PENBASE FORWARD	-	Lt.Col.G.COOLEY C.E. Adv. Eng.Off. P.B.S.
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The M.R.S. Representative agreed that 45 cycles would be suitable for the state Railway Service. The Committee agreed that the standarduzation of fre uency at 45 cycles was desirable.

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11) - Transport and tyres for electrical Companies

A.C. stated the difficulties the Electrical Companies had in obtaining transport and that vehicles were out of service for want of tyres. Maj. Kubale stated that M.C.S. obtained transport from an A.M.G. Service. The Chairman explained the need for using to the utmost civilian transport and referred to the tyre shortage. The Committee considered that A.C. look into the possibility of obtaining transport from the same source as M.C.S.

12) - Re port by A.A.I. on Generating Plant and CEB (England) equipment for Notthern Italy

Lt.Col.Lapper explained that Lt.Col.Page had returned to U.K. to obtain emergency sub-station equipment for use in Northern Italy A.A.I. had decided against ordering generating plant considering that the major problem would be transmission of energy from the undamaged plants to the centre of load. Accordingly they had formed the opinion that the Central Electrical Board (England) emergency sub-station equipment should be made available. A.A.I. also recommended that repairs be carried out on the Riccione and Cesano fre uency changers by military personnel. The Committee agreed to these recommendations.

13) - Any other business

The M.R.S. Representative stated that they were ready to take 5000 KW of energy for railway services. A.C. explained that this would be available on 15th January 45 and that arrangements would be made to give 500 KW immediately for testing purposes. The Ch airman stressed the importance of this supply and thate A.C. a rrange for continuity.

14) - Date and time of n xt meeting

It was agreed that the date and time of the next meeting be again arranged on the afternoon following the morning meeting of the Electrical Power Committee of A.F.L.R. (I) B. This has been set for Monday 22 January 1945.

L.W.LAUGHLIN
Captain: S.E.
Secretary
Elec.Recon.Com.Italy

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46	C.E., No.3 District
57/51	C.G., RAAC
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53	PENBASE, Forward SOUTH
54/56 Engr	C.E., PBS
57/59	S.P.A., PBS
60	HQ Adriatic Depot.
61/62	L.N.S., HQ AAI
63/64	AFLRS, NAPLES Area
65/66	AFLRS, (S.E.) Area
67/68	AFLRS, 5 ARMY Detachment
69	AFLRS, 8 ARMY Detachment) through
70	AFLRS, IBHORN Detachment) L.N.S., HQ AAI
71	Adv. C.E., No.2 District
72	File
73/83	Spares

{ Penbase Main is the Forward HQ

2519

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7/8	G-3, AFHQ
9	Q (Maint), AFHQ
10	QM, Coal Section, AFHQ
11	C.E., AFHQ
12	D.C.E., AFHQ
13	D.E., AFHQ
14/15	DMR (ITALY), C.M.F.
16	Fiscal Director, AFHQ
17	Tn. Increment, C.M.F.
18	G.P.A., MTOUSA
19/23	C.A.O., HQ AAI (G.A.O. 15th Army group.)
~~20/21~~	~~HQ, AAI~~
~~22/23~~	~~D.E., HA AAI~~
24	~~HQ, AC~~
25	Vice-President, Economic Section, HQ AC
26/27	Economic Section, HA AC
28	Industry Sub-Commission, HQ AC
29	Public Works and Utilities, HQ AC
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43	C.E., No.2 District
44/45	HQ., No.3 District
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Engr

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2519

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Tel: 489081 SECRET VSR/lam

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

Reference: 171/PWU 26 Dec. 1944

Subject: Discussion of Report, Engineer Appreciation of Electricity Supply, North Italy.

To : CE, AFHQ

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W.M. Lapper
Lieut-Colonel
Member of Electrical
Reconstruction Committee.

2514

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

Notes meeting 18 Dec 44 meeting.

M.G. McCook
A.A.F. channels for mil. requirements.
A.C. all others. Justified by A.C.

Acquavia unit 5000 kw relocated.

Supply of dist. trans. Army surplus by M.G. McCook
Also generating units.

Repair of transformers needs material, Another requisition being sent in for 3 months supply as military need the rehab. it is to not to exceed 30% prewar capacity)

Maj. Kubale – Electric R.R.
R.R. tieing – Foligno all ready.
Sufficient Elec. Locomotives.
Line is repaired.

Lt Col. Lapper – Rallets unit ready by 15 Jan 44
Maj. Kubale – on reserve supply for R.R.
Lt Col. Lapper – tieing all plants to Grid.
standardizing frequency at 45 ~~a~~
Maj. Kubale – Frequency does not effect R.R. due to D.C. rectifiers.
M.G. McCook – Lt Col. Lapper to make plans that R.R. be assured at emergency breakdown service once it starts operation. Can not be out more than 1 day.

Lt Col. Lapper – Combining Grids will be ready before Rallets comes in.

Maj Kubale – If Coll 5000 kw not ready at start a part of 2000 kw can be used and Steam Locos held till [illegible] available

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exceed 30% prewar capacity)

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Lt Col. Lapper – Combining Grids will be ready before Galleta comes in.

Maj Kubale – If full 6000 kw not ready at start a part or 2000 kw can be used and Steam Locos held till full amount available.

Committee recommends standardization to 45~ Lt. Col. Lapper to work out with Company and Govt.

Lt Col. Lapper – maps showing lines repaired and to be repaired.

Maj. Kubale – R.R. Arezzo – Piccione – Ile to 1/5 RR to rebuild and they let contracts,

(cont)

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Chuile to Retreddi, line will be ready by 1 April 44.

transport-
Maj. Kubale - says he gets his from A.M.G.
Major (Hart?).

Material from proposed Naples-Rome
line of R.R. to be used in the north-poles
used by P.B.S. at Leghorn.

tires. Send statement of requirements to
M.G. McCook and he will check used stocks,
not much hope. Shortage on trench front.

A.A.I- Concluded not to order generating plant.
time required - frequency, 4,000,000 kw,
sufficient will be left,
Big problem will be transmission
Lt. Col. to England for O.E.B. sub. equip.

Report by Lt Col. Page on Riccione and
crossing frequency changes. Recommends
work be done, Committee agreed,

Lt Col. Cooley - Rolling plant under
machine gun fire.

Next meeting 22 Jan. 45 Monday

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fires.

Send statement of requirements to
M.G. McCook and he will check vied stocks,
not much hope. Shortage on French front.

A.A.I. Concluded not to order generating plant,
time required, frequency, 4,000,000 kw,
sufficient will be left.
Big problem will be transmission.
Lt Col. to England for C.E.F.B. sub. equip.

Report by Lt Col Page on Riccione and
crossing frequency changes. Recommends
work be done, Committee agreed,

Lt Col. Cooley - Ballicino plant under
machine gun fire.

Next meeting 22 Jan. 46 Monday

11

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LWL/ac

ALLIED FORCE HEADQUARTERS
Electrical Reconstruction Committee (Italy)

A P O 512

Subject : Italian Electricity Situation as of 1st December 1944 (Cen.Italy) 19 Dec. 44

To : ELECTRIC POWER COMMITTEE, ALLIED FORCE LOCAL RESOURCES SECTION, R.A.A.C. - C.M.F.

1) - The demand for electricity for Military and essential civilian needs continues to grow and at the present time there is no spare capacity available to meet any further demands.

2) - It is anticipated that further generating capacity will be available about the middle of January but the use of this for industrial purposes will depend largely on operational requirements and conditions of plants in the north.

3) - In order to secure safety of supplies the time has arrived when a margin of spare capacity should be maintained to guard against breakdowns and give flexibility to the system. This arrangement will considerably improve the voltage and frequency of the supply which will tend to increased production from the factories already being supplied.

4) - During the month of November the following progress was made :

Transmission lines repaired	183 Km
Generating plant repaired	33,120 KW.

sent A.F.H.Q
copy E.E. 44
20 Dec.

W.M.LAPPER
Lt-Colonel
Elec.Reconstruction
Committee (Italy)

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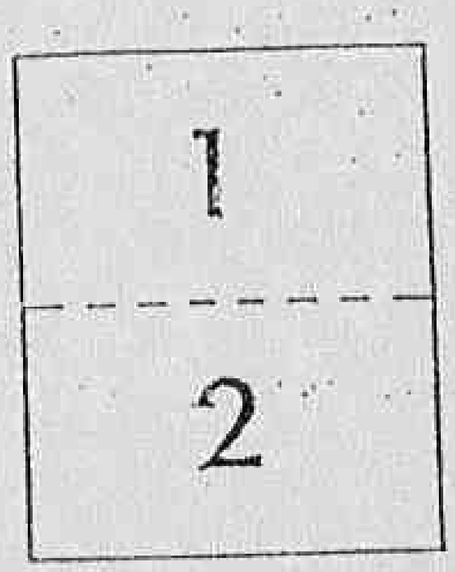
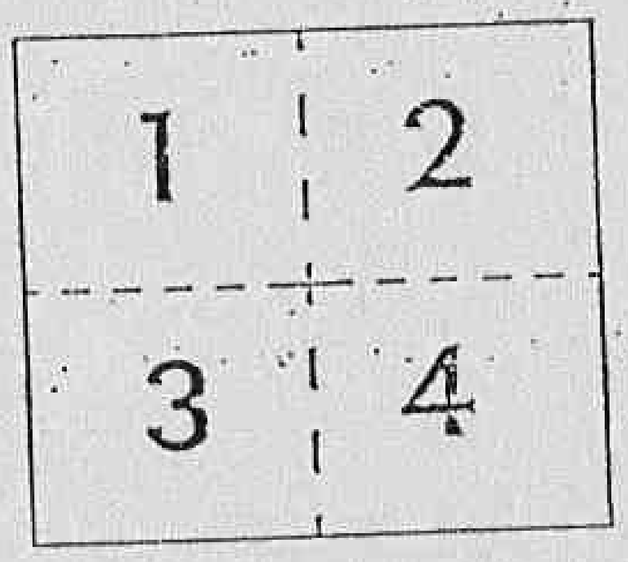
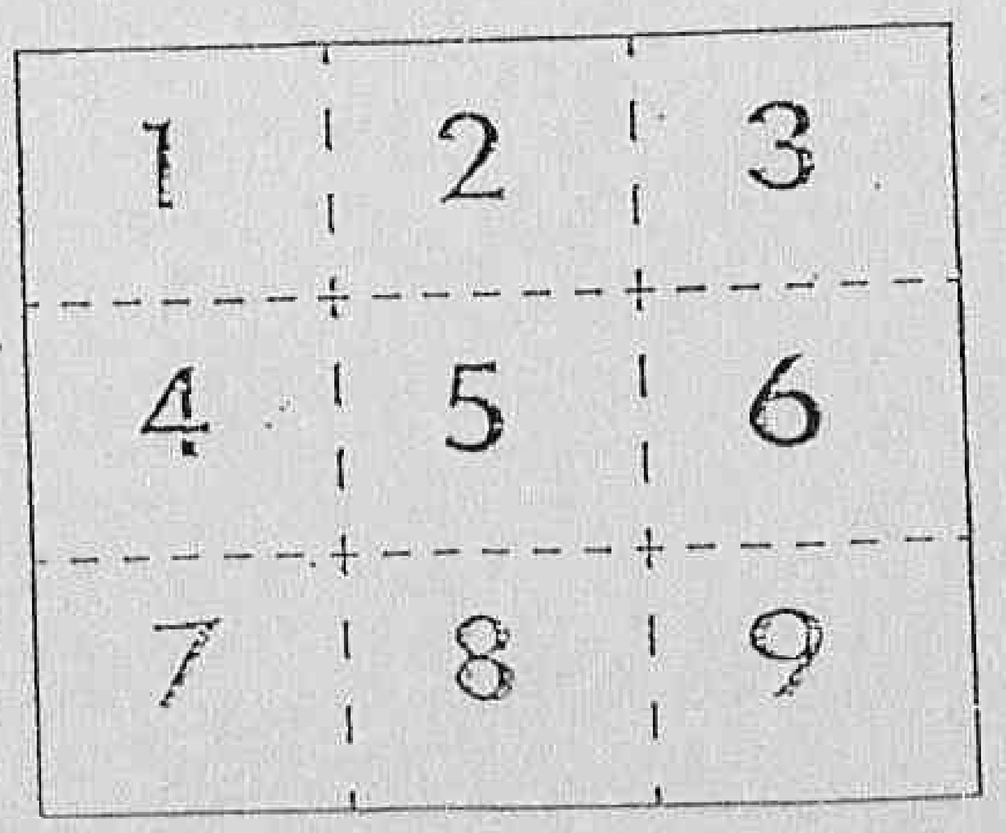
MAPS AND CHARTS TOO LARGE TO FILM
ON ONE EXPOSURE ARE FILMED CLOCKWISE
BEGINNING IN THE UPPER LEFT CORNER,
LEFT TO RIGHT, AND TOP TO BOTTOM.

SEE DIAGRAMS BELOW.







20371

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Presented by Lt Col. Cooley at 22 Jan 45 meeting

RELATION OF THE DAMAGES CAUSED TO THE HYDROELECTRIC PLANTS OF ALTO RENO AND LIMENTRA BY WAR

(1) DAM OF MOLINO DEL PALLONE

This Plant has suffered no damage, except a small leak in the centre of the shutters, that can be easily repaired.-
Eaven the Tunnel-Canal Molino del Pallone-Suviana is intact.-

****

(2) HYDROELECTRIC PLANT OF PAVANA.-

The Dam and relative accessory works, intake of water, delivery, pressure Pipe and the Tunnel-Canal Pavana-Suviana, are intact.-

****

The Central Station instead, has been completely destroyed by charges, the 25th September 1944.-
The two groups Turbine-Alternators, the Four Transformers, the switch-Board the Switches, the Set of Accumulators and relative generator for charging and the accessory works have been destroyed.-
Eaven the generator for auxiliary emergency services has been destroyed. On the other hand the crane in the Station is only lightly damaged.-
As for the Station building itself, the roof does no more exist, part of the walls have been destroyed and those that are still standing are not safe.-

OBSERVATIONS ON THE REPAIRING OF THE PLANT

The Pavana plant is essentially hydraulic, it gatheres and raises the water of the River Reno and of the River Limentra of Sambucca, sending it in the Reservoir of Suviana.-
The central Station itself was built to supply electric power to the works of Suviana, during construction, and in themean-time supply the railways, after the Suviana Station was finished, Pavana lost all her importance, infact we had already planned to dismantel it.-
On the other hand the generator is indispensable, as no power is available for moving the shutters.-

(3) HYDROELECTRIC PLANT OF SUVIANA.-

(A) DAM - has not been damaged

(B) ACCESSORY WORKS.-

(I) INTAKE WORKS :- No damage has been caused to the intake month, control Cabin and to the pressure pipes that lead to the valve chamber.-
Instead, the valves of the three principal pipes, and that of the auxiliary services, have been destroyed.-
Pressure Pipes, damaged the superior end of the principal one for the stretch of 10 meters, and the one for the auxilia ry services for a stretch of 14 meters.-

(2) OVERFLOW :- No Damage.

(3) LIGHTENING DELIVERY. No damage

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(4) DEPTH DELIVERY.-

Explosion in the Tunnel have completely dismantled the right hand side Verrina Valve.-
The same explosions have damaged the left hand side one.-
The concrete works between the two valves has cracked, damaging the shutters control, that nevertheless is still operating the shutter.-
The distribution of the right hand side valve has caused the escape of all the water of the Suviana Lake. The high bank of which are now been excavated at the base by the river, placing the overlooking houses in a dangerous position. In the mean-time we are trying to close the hole left open by the dismantled valve this work when finished will enable us to refill the lake.

¢) CENTRAL STATION

The Central Station of Suviana has been destroyed, by charges the 26th September. The distribution has been particularly heavy, concerning the machinery or the building itself nothing has been saved.
I) Machinery and Electric accessories destroyed :-

The 3 principal groups of Turbine-Alternators and their accessories.
The Turbine-Alternators group and accessories for the auxiliary services.
The frequency convertor-group.
The Station Mobile Crane,
The Transformer for the auxiliary services.
The Switch Board and control bench with all the instruments.
The secondary switch board with all the instruments.
The set of accumulators, with the two generators for the charge
The Workshop with all the tools, except a lathe that is only lightly damaged.
The Warehouse with nearly all the spare parts.

****

(2) The building of the Central Station, the roof does no more exist, the walls are badly damaged and deformed, with the danger of their fallingin. All the glass panes are smashed, all the iron works of the doors and windows are useless.

****

3) The delivery canal of the central station. has not been damaged.

D) OUTDOOR TRANSFORMATION SECTION

Eaven the transformation section has suffered very heavy distruction.
The following have been destroyed by charges or by fire.
The 130 KW Transformer.
The 60 KW Transformers (3 in all)
3 Switches with controls, R.O. type of the 130 KW section.
6 Separators with hand controls of the 130 KW section.
6 Tension reducers of the 130 KW section.
8 Switches with controls, normal oil type, of the 60 KW section.
3 Tension reducers of the 60 KW section
7 Current of the 60 KW section.

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Damaged nearly all the 36 separators of the 60 KW section.

****

NOTES

Eaven the motor-pump group, used for raising the water from the river, has been destroyed.
The following have been damaged by airburst.
- a strech of the principal lines and telefones lins
- distruction of the roof, glass panes and iron works of the lodging and offices building. The first is uninhabitable, the second has been partly repaired.
- finally the germans, before leaving, took with them the trunk of the central station.

**** **********

RESULTS OF THE DESTRUCTIONS AND THEIR PROVISIONS

Because of the above-mentioned destructions, the Suvian Plant is no longer working and will not be able to supply electric power for a long period.
The renewing of this service involves the substitution of all the machinery and accessories and the reconstruction of the building.,
Another serious consequence is the emptying of the lake caused by the destruction of the depth valves, with danger of a landslip,
At present we are trying to close the holes left open by the dismantled valve, the replacing of the damaged valves is nevertheless most urgent.
The population of Suviana andof the Castel di Casio are completely without electricity, which was supplied by the destroyed central station.
Works have also started for the renewing of this service. But for the solution of the problem a Turbine-Generator is needed.
All the telefone service between Pavana and Suviana are interrupted, works had already started for renewing these services but could not be finished on account of an Allied necessity.
Beside we inform this Command, That Allied Troops are taking away from this Plant materials that are needed for military purposes, damaging our reconstruction plants

(signed- J. M. McCALLUM - Capt
Engineer A.M.G. IV CORPS

14/12/1944

The removal of material of any description from damaged Electric Plants is a direct contravention of Administrative Directive, Number 56, SECRET - Ref.HOP/ RET/CJR dated 25 September 1944 - This is one clear case where Unit Commander in the Area, has not complied with the above directive.-

/s/ J. M. McCALLUM Capt
A.M.G. IV CORPS.

2509

SUGGESTIONS TO PREVENT POWER SHORTAGE DURING WINTER TO BE HELD AT END OF 45 AND 46.

I would like to make the following suggestions that although the 25,000 KVA set at [redacted] will shortly be put into operation it is not loaded up to its full capacity immediately, but that the capacity is built up in such a way that should this single unit shut down due to trouble of any description, there will always be a reserve of power from the other Stations to supply essential consumers such as the Electric Railways and certain industries which would suffer serious damage should the supply fail for any length of time.

To this end I would recommend the following :-

(1) That the [redacted] Thermal Power Station, together with all its network of hydro stations be coupled into [redacted] and with [redacted], and the whole system run at 45 cycles. It is known that [redacted] has for quite lengthy periods run below 45 cycles without any serious detriment to the town's working condition.

Lt.-Col.Harris, CE of [redacted], has signified his entire agreement with this proposal and the matter has also been discussed with the A.E., Lt.-Col.Jagger, who is also in agreement.

(2) That any balance of power generated by the Colletto plant will be utilised for reducing the present output of [redacted] thermal plant, the [redacted] thermal plant to remain running at a third or half load but available to be switched on to the grid should any failure of supply occur at [redacted].

In this way it would be possible in all probability to provide [redacted] with an extra 5000 KW during the good periods, but [redacted] would have to agree, should Colletto fail, to supply the essential consumers in the North such as the electric railways. It would also have a steadying influence on the frequency and voltage control as a whole and also make a supply available to [redacted] at 45 cycles when that town has been captured, rather than the necessity of running two separate lines.

Lt.-Col.R.E.,
A.D.W. (E & M)

Directorate of Works,
H.Q., A.A.I.

15 Dec 44

2504

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RECOMMENDATIONS FOR THE RECONSTRUCTION MEETING TO BE HELD ON THE AFTERNOON OF 1st DEC.44.

Arising out of the Minutes of the last Meeting which took place on 22 Nov.44, the detailed damage report on the CESANO Power Station and the RICCIONE frequency changing plant are now submitted. It is recommended that:-

1. Work commence immediately on the rehabilitation of the 5750 KVA 5KV 50 Cycle Synchronous Alternator with the intention of converting it into a synchronous condenser.

2. The No.1. Frequency Changing Group installed at RICCIONE Sub-Station be repaired with the aid of cannibalisation of the No.2.Group.

No.1.has sustained no damage whatsoever to foundations, bedplates, or supporting pedestal bearings and is located in the least damaged part of the building.

The repairs will involve the following major tasks.

(a) The synchronized Commutator Motors
- i. Removal of Armature complete.
- ii. Removal of burnt stator windings.
- iii. Rewinding of stator with coils obtained from undamaged stator windings of No.2.Group motor.
- iv. Installation of undamaged armature obtained from No.2.Group motor.
- v. Repair of brush gear.

(b) Commutator Motors. 775KVA...
- i. Removal of armatures from both machines.
- ii. Removal of burnt stator windings from both machines.
- iii. Rewinding of stators with coils obtained from undamaged stator windings of No.2 Group motor.
- iv. Installation of undamaged armatures from No.2.Group motors.
- v. Repair of brush gear.

(c) Synchroneus alternator 20,000 KVA 48.7/51.5 cycles.
- i. Uncoupling and removal complete of this machine.
- ii. Re-installation of undamaged machine from No.2 Group.

(d) Synchroneus alternator 20,000 KVA 49.5/43 cycles.
- i. Re-insulation of burnt end connections.
- ii. Possible re-insulation of field turns.

(e) Alternator Field Exciter & Exciter Field Generator ...
- i. General check up.

2507

To aid this repair there is available the existing 120 ton gantry crane which can operate over both machines.

3. This work be carried out under the supervision of Eighth Army Engineers and with employment in part of military labour.

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(a) The synchronized Commutator Motors	i.	Removal of Armature complete.
	ii.	Removal of burnt stator windings.
	iii.	Rewinding of stator with coils obtained from undamaged stator windings of No.2.Group motor.
	iv.	installation of undamaged armature obtained from No.2.Group motor.
	v.	Repair of brush gear.
(b)Commutator Motors. 775KVA...	i.	Removal of armatures from both machines.
	ii.	Removal of burnt stator windings from both machines.
	iii.	Rewinding of stators with coils obtained from undamaged stator windings of No.2 Group motor.
	iv.	Installation of undamaged armatures from No.2.Group motors.
	v.	Repair of brush gear.
(c) Synchronous alternator 20,000 KVA 48.7/51.5 cycles.	i.	Uncoupling and removal complete of this machine.
	ii.	Re-installation of undamaged machine from No.2 Group.
(d) Synchronous alternator 20,000 KVA 40.5/43 cycles.	i.	Re-insulation of burnt end connections.
	ii.	Possible re-insulation of field turns.
(e) Alternator Field Exciter & Exciter Field Generator ...	i.	General check up.

2507

To aid this repair there is available the existing 120 ton gantry crane which can operate over both machines.

3. This work be carried out under the supervision of Eighth Army Engineers and with employment in part of military labour.

Lt.-Col.R.E.,
A.D.W.(E & M).

Directorate of Works,
H.Q., A.A.I.

15 Dec 44

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[redacted]

(A) [redacted]

22 Volts - 50 Cycles - 500 Amps. - 3 P.H.

No 1 [redacted].

(a) Armature winding burnt.
(b) Stator winding burnt.

No vital damage to Yoke - Pedestal Commutator - End Bearing Plates or Intermediate pedestal bearing.

No 2 [redacted].

(a) Yoke broken.
(b) Pedestals cracked.
(c) End bearing plate cracked.
(d) Intermediate pedestal bearing cracked.

No apparent damage to Armature - Commutator or rotor and stator windings.

(B) [redacted].

775 K.V.A. - 440 Volts - 600 Amps - 3 P.H.

No. 1 [redacted] - Both Motors.

(a) Stator winding insulation burnt.
(b) Armature winding insulation burnt.
(c) Moderate damage to brush gear.

No. 2 [redacted] - Both Motors.

(a) Stator frame cracked.
(b) Brush gear badly damaged.
(c) Pedestal bearing cracked.

No apparent damage to Stator winding, Commutator, Armature or Armature coils. - Shafts to be checked.

(C) [redacted] - [redacted].

10 K.V. - 25000 KVA - 3 PH - 48.7/51.5 cycles.

No. 1 [redacted].

(a) Stator insulation burnt.
(b) Rotor insulation burnt.

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No visual damage to Rotor - Pedestal Commutator - Coil Bearing Plates or Intermediate pedestal bearing.

No 2 [illegible].

(a) Rotor Lantern.
(b) Pedestals cracked.
(c) Coil bearing plate cracked.
(d) Intermediate pedestal bearing cracked.

No apparent damage to Armature - commutator or rotor coil starter windings.

(B) [illegible].

775 K.V.A. - 440 Volts - 1,020 Amps - 3 P.H.

No. 1 [illegible] - Both Motors.

(a) Stator winding insulation burnt.
(b) Armature winding insulation burnt.
(c) Underside damage to Lauch gear.

No. 2 [illegible] - Both Motors.

(a) Stator frame cracked.
(b) Lynch gear belly damaged.
(c) Pedestal bearing cracked.

No apparent damage to Stator winding, Commutator, Armature or Armature Shafts. - Shafts to be checked.

(C) [illegible] - [illegible].

10 K.V. - 2500 R.P.M. - 3 PH - 48.7/51.5 Cycles.

2506

No. 1 [illegible].

(a) Stator insulation burnt.
(b) Rotor insulation burnt.

No damage to slip rings - Stator Frame - Shaft - Pedestal Bearings - Coupling - Pedestals or Rotor.

No. 2 [illegible].

No apparent damage to windings, Shaft - Stator Frame - Pedplate - Pedestal Bearings - Coupling and Rotor unbalanced.

...../Sheet 2.

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Sheet No.2

(D) [illegible] - ALTERNATOR.

20,000 KVa - 10 KV - 3 PH - 10.5/43 Cycles.

No. 1 GROUP.

(a) Stator Windings burnt on inside end Connectors.

No damage to Stator Frame - Rotorial Bearings - Shaft - Pedplate or Rotor.

No. 2 GROUP.

Identical as above.

(E) ALTERNATOR FIELD EXCITERS AND EXCITER TO ED GENERATORS.

440 KW - 250/450 Volt. - 535/900 Amps.

No. 1 GROUP.

(a) Slight damage to brush gear only.

No. 2 GROUP.

As above.

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BRUCE REPORT

CHELSEA POWER STATION NO [illegible]

PRIMARY CHARGING PLANT (A).

5750 KVA - 5 KV - 50 Cycle - 774 amps.
900 rpm - 0.8 P.F.
Star connected Stator
Rx - 440 V - 500 amps.

Excitation. 55 KW - 400 V - 134 Amps. Sep Excited D.C. Compound.

(a) Further inspection of this plant has ascertained that 1 No. [illegible] has sustained only superficial damage and will be quite suitable for conversion into a BOOSTER CONVERTER.

(b) Damage sustained.

(a) Cast metal outer shrouding perforated by flywheel
(b) Ring bearing plate of Exciter Generator Field armature windows.

Thorough inspection has revealed no apparent damage to Rotor Core - Stator Frame - Slip Rings - Shaft Pedestal Bearings - Foundations - End Connections of Rotor and Stator windings of this Machine.

Alternator Field Exciter. - which is mounted co-axially is unaffected as is the Exciter Field Generator, except for small item noted above.

Starting.

This machine, which Incorporates BOOSTER WINDINGS is started as an Asynchronous Induction Motor.

Starting Voltage - 1650 Volts.

Coupling - Face Plate Metal, Coupling 15" diam.

DAMAGE REPORT 132 K.V. OVER AIR FEEDER AND STATION AT CHELSEA NO 2 SUBSTN

Incoming feeders

2 No. 132 KV 3 PH supported in equilateral triangle formation 250
30' Standard Lattice Girder type steel towers. The feeders are [illegible] from the main 132 KV line, [illegible] - [illegible].

Outgoing feeders. 3 K.V. lines to Railways.

Switchgear Installed.

will be quite suitable for conversion into a [illegible]

(b) Damage sustained.

(a) Cast metal outer shrouding penetrated by shrapnel
(b) Ring bearing plate of Exciter Generator Field carrier broken.

Thorough inspection has revealed no apparent damage to Rotplate - Stator Frame - Slip Rings - Shaft Pedestal Bearings - Foundations - End Connections or Rotor and Stator windings of this Machine.

Alternator Field Exciter. - which is mounted co-axially is undamaged as is the Exciter Field Generator, except for small item noted above.

Starting.

This machine, which incorporates DAMPER WINDINGS is started as an Asynchronous Induction Motor.

Starting Voltage - 1890 Volts.

Coupling. - Base Plate Metal, Coupling 17" diam.

[illegible] 120 K.V. OPEN AIR SWITCH AND STATION AT CHIPEBA [illegible] 623878

Incoming Feeders

2 No. 120 KV 3 PH supported in equilateral triangle formation 250' 80' Standard Lattice Girder type steel towers. The Feeders are [illegible] from the main 120 KV line, [illegible] - BULAWAYA.

Outgoing feeders. 3 K.V. lines to Railway.

Switchgear Installed.

12 No. Single phase oil switching Incoming Feeders and 2 No. Transformers :-

Make	[illegible] S/A
Type	Porcelain Pedestal - Oil Filled, Isolator I & II Trans.
Voltage	130 K.V.
Current	400 Amps
Frequency	42 - 50 Cycles
Rupt capacity	80,000 Amps.
Oil capacity	160 Kg per pole
Makers No.	34732/4
Makers type	O.B. 160

Damage/

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Damage - All units.

Completely destroyed.

Switchgear control

4 No. Cabinet Controls installed

Make	[illegible] T/A
Type	Remote control - Relay operated
Voltage	125 Volts D.C.

Damage - All Cabinets.

(a) Cabinets burnt and distorted
(b) Operating Mechanism destroyed.

Isolating Links.

Line side - Manual control
Trans side - Motor control.

Line Side. - 2 No. Sets Installed.

Both sets destroyed.

Trans Side - 10 No. Sets, Motor Controlled Links Installed.

(a) All links destroyed or very badly damaged.
(b) 2 No. Sets of motor controls very badly damaged.

Supporting Pedestal Insulators.

3 Shed - 40 KV Units.
3 No. constituting 1 Pillar.

Damage All pillars damaged 50%, uncertain and destroyed.

Supporting Lattice Framework - 10% damaged.

Transformers (A)

2 No. Similar Units Installed.

Make	[illegible]
K.V.A.	150 K.V.A.
Voltage	2300 V. ± 5% * 10% / 200 Volts.
Frequency	42 - 50 Cycles
No of phases	3 Phase
Power Factor	[illegible]
Current	36/754 Amps.
Interconnections	[illegible] - Star
Type	Core
Cooling	Oil Cooled

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(a) [illegible] burnt and distorted
(b) Operating mechanism destroyed.

Isolating Links.

Line side - Manual control
Trans side - Motor control.

Line Side. - 2 No. Sets installed.

Both sets destroyed.

Trans Side - 10 No. Sets, Motor Controlled Links Installed.

(a) All Links destroyed or very badly damaged.
(b) 2 No. Sets of motor controls very badly damaged.

Supporting External Insulators.

3 Used - AC 22 Units.
3 No. consisting 4 Pillar.

Damage All pillars damaged 80%, unmounted and destroyed.

Supporting Lattice Framework - 10% damaged.

Transformers (1)

2 No. Similar Units Installed.

Make	MARELLI
K.V.A.	190 K.V.A.
Voltage	2300 V. ± 5% ± 10% / 260 Volts.
Frequency	42 - 50 Cycles
No of phases	3 Phase
Power factor	0.8 P.F.
Current	36/33A Amps.
Interconnection	STAR - STAR
Type	Core
Cooling	Oil Cooled

2507

Damage - Both units

(a) Tanks badly holed
(b) Cooling fins distorted
(c) Windings badly damaged, and core framework distorted, both are burnt.
(d) Bushing Insulators broken.

Switchgear Installed

2 No. Sets - 3 P.H. - Insulad - Oil filled - 15 KV - 200 Ampere - 42 - 50 Cycle - Make MARELLI S.A.

Control/

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Motor control - 125 Volts DC - 21.5 Amps.

Damage. - All switchgear completely destroyed.

Transformers (3) 2 No circular units installed.

Make	[illegible]
kVA	2500
Voltage	415 kV / 3300 volt.
Frequency	42 - 50 cycles.
No of phases	3 / 12
P.F.	0.8 P.F.
Type.	Core Type.
Cooling	Oil cooled.

Damage.

(a) Turns badly baked.
(b) Cooling tubes distorted. and broken.
(c) And damage to coils and distortion of cores.

Control Gear.

Very badly damaged.

Overhead Lines.

Undamaged.

[illegible]
5 Sheets.

[illegible]

2502

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

Subject : Electrical Reconstruction Committe Italy - Membership

Military Railway Service
C.MF
Tel. Firebox 84
Tn.A.3 (E) /16 - 1
5 Dec. 44

to : Electrical Reconstruction Committee - Italy
HQ. A.C. Public Works and Utilities S/C A.P.O. 394

Reference your letter 171/PWU of Dec. 44.

The name of my representative for the Electrical Reconstruction Committee Italy - Id Major KUBALE R.E.

At present I am unable to nominate an alternative but shall do so as soon as possible.

BRIGADIER
Director, Military Railway Services

2502

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Tel.489081

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

LWL/ac

Reference : 171/ /PWU — 2 Dec. 44
Subject : Electrical Reconstruction Committee - Italy - Membership
To : D.M.R. - Italy

1) - At the first meeting, held on 22 Nov. 44, it was considered that a representative of [illegible] should be on the committee.

2) - I am instructed by the Chairman to request the name of your representative and an alternate.

3) - Enclosed for your information is file containing the Agenda of the 22 Nov. 44 meeting.

4) - Minutes of the meeting are now being prepared and will be forwarded shortly.

L.W.LAUGHLIN
Captain
Secretary
Electrical Reconstruction
Committee - Italy

enclosure :
Agenda of 22 Nov. 44

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

Tel.489081 HEADQUARTERS ALLIED COMMISSION LWL/ac
A.P.O. 394
Public Works and Utilities Sub-Commission

Reference : 171/ /PWU 1 Dec. 44
Subject : Electrical Reconstruction Committee (Italy)

To : C.E. DISTRICT THREE

1) - At a meeting of the Electrical Reconstruction Committee held in Rome on the 22nd Nov. 44 consideration was given to the representation of the interested service on this Committee.

2) - It was agreed that District 3 and the Military Railway Service be invited to have a representative on the Committee.

3) - I am instructed by the Chairman to ask if you will please arrange to nominate your representative who will attend the meetings.

4) - Present arrangements are that meetings will be held in Rome each month and will take place on the afternoon following the morning meeting of the Local Resources Board Electrical Allocation Committee. The next meeting being on the 18th Dec. it is requested that you advise me of the representative selected for membership.

5) - For your information the membership of the Committee is as follows :

- C.E. - A.F.H.Q. - Maj.Gen.D.McCOACH, Chairman
- A.C. - Lt.Col.W.M.LAPPER, Chief Elec.Div. - P.W. & U. S/C
- Pen Base Sec. - Lt.Col.G.COOLEY
- D.W. - A.A.I. - Lt.Col.A.W.PAGE
- Flag Officer - Comdr. HOGGAN
- D.G. M.R.S. - to be nominated
- C.E. District 3 - to be nominated

6) - Attached memorandum N° 43 dated 5th October 1944 issued by AFHQ explains the functions of the Power Rehabilitation and is forwarded for your information.

W.M.LAPPER/44
Lieut-Colonel
Chief Elec.Div.

enclosure :
Memo N° 43

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

COPY

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AFHQ

ALLIED FORCE HEADQUARTERS
APO 512

ADMINISTRATIVE MEMORANDUM } 5 October, 1944
NUMBER 13 }

POWER REHABILITATION

1. The function of power rehabilitation having been transferred to control of AFHQ the following will govern:

2.a) The Chief Engineer, AFHQ, will

(1) Exercise staff supervision of power rehabilitation activities.

(2) Recommend rehabilitation policies.

(3) Coordinate power rehabilitation activities of the various agencies concerned.

b) Electrical Reconstruction Committee.

(1) The Central Electrical Board, Italy, is dissolved. There is hereby created and Electrical Reconstruction Committee (Italy), with membership as follows:

Chief Engineer AFHQ (Chairman).

Representatives of: ACC, R.N., AAI and CZ, NATOUSA. It is requested that ACC, R.N., AAI and CZ NATOUSA, advise AFHQ of representatives selected for membership.

(2) The Electrical Reconstruction Committee will:

a. Meet at the call of the Chairman.

b. Recommend studies for determining power requirements as may be required.

c. Recommend study of and preparation of plans for power rehabilitation as may be required.

d. Review ACC plans for power rehabilitation, correlating them with the requirements and make recommendations as to extent and nature of rehabilitation.

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

c. Recommend designation of agency to perform specific construction work of rehabilitation, when necessary.

f. Make such other recommendations regarding power rehabilitation as it deems necessary.

2. The ICC will:

(1) Furnish Secretariat for the Electrical Reconstruction Committee.

(2) Be responsible for planning power rehabilitation throughout Italy.

(3) Maintain liaison with AAI and keep informed as to existence and condition of power plants and probable rehabilitation needs in operational area.

(4) Ascertain power requirements from AAI, CZ, RAUSA Districts (Br.), and other sources.

(5) Submit plans for rehabilitation to the Chief Engineer for consideration and approval of the Electrical Reconstruction Committee.

(6) Using Italian labor and local materials, direct, administer and supervise construction work of rehabilitation and operate the power systems except those projects specifically assigned other agencies by AFHQ and except as provided in paragraphs 2d (2) and 2e (1).

(7) Will issue all orders necessary to implement the program to Italian Power Companies or other civilian agencies.

(8) Keep the Chief Engineer, AFHQ, advised of its activities.

d. AAI will:

(1) Cooperate with ICC in determining existence and condition of power plants and probable rehabilitation needs in the operational area.

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(2) Insofar as practicable initiate, construct and operate such power installations within the operational area as it considers necessary, coordinating with plans of ACC.

(3) Advise the Chief Engineer, AFHQ, of any power rehabilitation work undertaken.

c. CZ NATOUSA and Districts (Br.) under command AFHQ will:

(1) Initiate construct and operate such power installations as are required locally for their own activities.

(2) Undertake such general power rehabilitation projects as may be specifically assigned by AFHQ.

(3) Cooperate with ACC and AAI and render them such aid and assistance as is practicable within available means and without detriment to their own operations.

(4) Advise the Chief Engineer, AFHQ, of any power rehabilitation work undertaken.

3. Orders to implement plans will be issued through normal staff channels in respect to work for which military agencies are to be responsible.

4. The agencies mentioned above will furnish the required personnel from their own allotments.

By command of General WILSON

/S/ H.V. Roberts
H.V. ROBERTS,
Colonel, AGD
Adjutant General

Distribution
"C"

2496

Tel.489081 Ext.317

P.W. & UTIL. S/C, A.C.
Electrical Division

File : E.R.C.

17 November 1944

ELECTRICAL RECONSTRUCTION COMMITTEE - AGENDA

The first meeting of the Electrical Reconstruction Committee will be held at 1430 hours on Wednesday 22nd November 1944 in Room 16 - 8th floor A.C. Head quarters - Rome.

1) - Explanation by the Chairman regarding the functions of the Electrical Reconstruction Committee (Italy).

2) - To consider the membership of the Committee.

3) - To receive a report from AC of the progress of Electrical Rehabilitation Work and future planning.

4) - To receive a report from Lt.Col.W.M.LAPPER concerning the possibility of obtaining portable electrical equipment for use in the Italian theater P.B.S.

5) - To consider the electrical situation in Northern Italy.

6) - Any other business.

7) - To fix the date and time for the next meeting.

Secretary
Elec. Recon. Com. Italy

2495

Distribution
C.E. - AF H Q
Lt.Col.Cooley - MT OUSA
Elec. Div. - A.C.
D.W. - A.A.I.

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

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5) - To consider the electrical situation in Northern Italy.

6) - Any other ~~d Iscussions~~ passing so.

7) - To fix the date and time for the next meeting.

Secretary
Elec. Recon. Com. Italy

2495

Distribution

C.E.	-	AF H Q
Lt.Col.Cooley	-	MT OUSA
Elec. Div.	-	A.C.
D.W.	-	A.A.I.
Flag Officer	-	R.N.

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

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

Tel.48908:

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

LWL/ac

10 Nov. 1944

Ref.171/ /PWU
Subject : Agenda 2nd meeting
Electrical Reconstruction Committee

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

1) - Attached for your consideration and approval is a propsoed Agenda for the meeting of the Committee.

2) - The Committee had one meeting on the 8th August 44 under the Chairmanship of Major General N.A. Coxwell-Rogers, a copy of which is enclosed. Reference is therefore made to this meeting in the proposed Agenda.

3) - It is suggested, when approved, that this Agenda be sent to the Committee Members at once informing them that the actual meeting date will be announced as soon as it can be determined.

E.J.BARRY
Major, C.E.
Acting Chief Elec.Div.

Tel. - Rome 489041 Ext.317

Copy N°

File : E.R.C.

E.R. & Util. S.C., AC

Nov. 44

ELECTRICAL RECONSTRUCTION COMMITTEE - AGENDA

The second meeting of the Electrical Reconstruction Committee will be held at _____ hours on _____ Nov. 44 in the Cafeteria Conference Room 27, on the first floor Headquarters Allied Commission to consider the following agenda :

1) - Minutes of meeting held on Tuesday 8th August 1944.

2) - To receive report from Allied Commission on the present electrical situation including the availability of electricity, the present condition of electric facilities, the reconstruction projects now under way, and an estimate of the situation as of 31 March 1945 and 31 December 1945.

3) - To receive and review plans prepared by the Allied Commission covering electric rehabilitation up to 31 December 1945.

4) - To receive a report from the Allied Commission as to the possibility of importing portable electric generating equipment for Central Italy.

5)- To receive and review a plan prepared by the Allied Commission concerning the use of portable electric generating equipment.

6) - To receive preliminary report concerning the availability in North Italy of Swiss generated electricity over existing inter connections.

7) - Consider change in local material procurement methods for electric rehabilitation work.
(a) to place the bidding for this class material on the same plane as the military instead of being subordinate to military demands and bidding.
(b) to make available to this agency on direct requisition, electrical repair material in stock of British and American Engineer depots.
(c) to make available to this agency materials controlled by Allied Force Local Resources Board by direct application.
(d) The importation of basic materials needed in repair work.

8) - To receive report from AAI as to power rehabilitation planned on reconstruction

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The second meeting of the Electrical Reconstruction Committee will be held at _____ hours on _____ _____ Nov. 44 in the Cafeteria Conference Room 27, on the first floor Headquarters Allied Commission to consider the following agenda :

1) - Minutes of meeting held on Tuesday 8th August 1944.

2) - To receive report from Allied Commission on the present electrical situation including the availability of electricity, the present condition of electric facilities, the reconstruction projects now under way, and an estimate of the situation as of 31 March 1945 and 31 December 1945.

3) - To receive and review plans prepared by the Allied Commission covering electric rehabilitation up to 31 December 1945.

4) - To receive a report from the Allied Commission as to the possibility of importing portable electric generating equipment for Central Italy.

5)- To receive and review a plan prepared by the Allied Commission concerning the use of portable electric generating equipment.

6) - To receive preliminary report concerning the availability in North Italy of Swiss generated electricity over existing inter connections.

7) - Consider change in local material procurement methods for electric rehabilitation work.
(a) to place the bidding for this class material on the same plane as the military instead of being subordinate to military demands and bidding.
(b) to make available to this agency or direct requisition, electrical repair material in stock of British and American Engineer depots.
(c) To make available to this agency materials controlled by Allied Force Local Resources Board by direct application.
(d) The importation of basic materials needed in repair work.

8) - To receive report from AAI as to power rehabilitation planned on reconstruction in forward areas.

9) - Emergency plant equipment for North Italy totaling 100,000 KW.

10) - Map North Italy showing location of generating plants, installed capacity and present condition if known. Data to be prepared by Regions and to be furnished to all organizations interested there in.

11) - Any other business.

12) - To set a date for the next meeting.

Secretary,
Electrical Reconstruction Committee

Distribution :

219

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DCK/ar

EPQ

ALLIED FORCE HEADQUARTERS
APO 512

CIRCULAR)
:
NUMBER 27)

16 November 1944

ECONOMY IN THE USE OF FUEL, LIGHT and GAS

AFHQ Circular Number 8, 1943 is rescinded and the following substituted therefor :

" 1) - A continuing effort is being made to reduce wherever possible the importation of coal from the United Kingdom and United States for use in this theater. This effort is essential and in fact directed by the Combined Chiefs of staff because of the definite world shortage of coal and the amount of shipping required to move a commodity of such bulk.

2) - Sardinian coal and Italian lignite will hereafter be used as a substitute for imported coal wherever such substitution can be made.

3) - The allocation of coal for consumption in electric and gas plants and other industries is made by this headquarters. The allocations are based on the minimum essential requirements of the various plants and industries. Civilian consumers are rationed in light and gas and are denied coal for space heating. It is, therefore, essential that the military consumption of electric power and gas be kept to the essential minimum in order to conserve coal. Reference is made to AFH Q letter, AG 675/171 GDS-O of 31 October 1944, subject : "Conservation of Electric Power Facilities of I talian Utilities." Where necessary, a system of rationing orother means of control will be instituted by area commanders concerned.

4) - With imports of coal limited to the bare minimum in order to insure a steady supply for operational demands, any wastage of gas and light or fuel will affect the stocks imported. The use of solid fuel for cooking, water heating, and space heating will be to Sardinian coal, lignite or wood.

5) - Allowances of fuel for troops whose maintenance is a British responsibility will be as stated in AFHQ Ration and Fuel Scales Pamphlet as notified in G.R.O. 570/43. Allowances for United States troops will be in accordance with MTOUSA Circular Number 133, 1944."

2492

By command of General WILSON

J.A.H.GAMMELL
Lieutenant General, Chief of Staff

OFFICIAL :

H.V. ROBERTS
Colonel, AGD
Adjutant General

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

Capt Laughlin

VSR/lam

Tel: 478906

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

November 5th, 1944

SUBJECT: Meeting to
Discuss Electric Rehabilitation Plans.

TO : Soc. An. Terni per l'Industria e l'Elettricità
Azienda Comunale Elettricità ed Acque "A.C.E.A."
Società Romana di Elettricità "S.R.E."
Unione Esercizi Elettrici "U.E.E.S."
Società Elettrica Selt "Valdarno"
Soc. An. per lo sfruttamento della forze Endogene
"Larderello"
Società Meridionale di Elettricità "S.M.E."
Ente Autonomo Volturno

1. The following is a portion of an order recently received by the Allied Commission from Allied Force Headquarters:

"(2) The Electrical Reconstruction Committee will:

a. Meet at the call of the Chairman

b. Recommend studies for determining power requirements as may be required.

c. Recommend study of and preparation of plans for power rehabilitation as may be required.

d. Review Allied Control plans for power rehabilitation, correlating them with the requirements and make recommendations as to extent and nature of rehabilitation.

e. Recommend designation of agency to perform specific construction work of rehabilitation, when necessary.

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f. Make such other recommendations regarding power rehabilitation as it deems necessary.

The Allied Commission will:

(1) Furnish Secretariat for the Electrical Reconstruction Committee.

(2) Be responsible for planning power rehabilitation throughout Italy.

(3) Maintain liaison with AAI and keep informed as to existence and condition of power plants and probable rehabilitation needs in operational area.

(4) Ascertain power requirements from AAI, CZ, MTOUSA Districts (Br.), and other sources.

(5) Submit plans for rehabilitation to the Chief Engineer for consideration and approval of the Electrical Reconstruction Committee.

(6) Using Italian labor and local materials, direct, administer and supervise construction work of rehabilitation and operate the power systems except those projects specifically assigned other agencies by Allied Force Headquarters and except as provided in paragraphs 2d (2) and 2e (1).

(7) Will issue all orders necessary to implement the program to Italian Power Companies or other civilian agencies.

(8) Keep the Chief Engineer, AFHQ, advised of its activities."

2. In order that the Allied Commission may perform its responsibility to plan power rehabilitation throughout Italy as outlined above, it is requested that both the Managing Director and Chief Engineer of your company be present a meeting to be held in the Cafeteria Conference Room, Number 27, on the first floor of Headquarters, Allied Commission, Ministero delle Corporazioni - Via Veneto, Rome, at 1000 hours on 10 November 1944 and that you be prepared to discuss the following:

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The preparation of a plan to rehabilitate the maximum possible generating and transmission capacity of your company before 31 December 1945, using materials and fabricating facilities locally available. By this is meant using local foundries and machine shops, and repair materials, either which are in Italy now, or which may be imported on short notice.

3. It is very important that you bring to the meeting appropriate technical data concerning your company so that preliminary plans can be discussed at the meeting in order that specific plans can be prepared by you as soon as possible after 7 November.

4. It is necessary that no information contained in this letter be released for publication.

E.J. Barry

E.J. BARRY
Major, C.E.,
acting Chief, Elect.Div.

2184

Nome	Carica	Sede
ing. Lorenzo Tarantini	Direttore Generale	Roma
ing. Domenico Tolomeo	Capo Servizio Tecnici	"
ing. Alessandro Lodolo D'Oria	Capo Servizio Produzione e Lavori	Via Romagna elettrica
[illegible] Brandi	Dirett. gen. Soc. Romana di Elettricità	
ing. A. Bocchichio	Direttore centrale	Terni
E. Cipiti	V. Direttore Centr. Elettr.	Terni
ing. Giuseppe Mengarelli	Direttore	ACEA
ing. Edoardo Orazi	Capo Servizio	ACEA
ing. Aldo Tuzzano	Segretario Dirett. Centr.	Terni

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

If equipment available can complete
65,000,000 kw/t now available.

100,000,000 kw/t in June 1945
150,000,000 kw/t. by end 1945

Valdano - ~~Brett present~~ - Romans
will communicate.

S.H.A.E. not present

Rate questions to be handled by Brussels
Office.

No one has received these.
estimate forms.

No Pmt on material (including) for division amongst those that need it.

MB Plans should consider standard
frequency. new equipment should
be available & afraid from 45 - to 52

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Volcano - Hard Freeze - [illegible]
hill communicat.

S.M.A.E. not present

Rate questions to be handled by Reunion Office.

Who one has received these estimate forms.

Pro Pmic on material Exchange (insulating) for division amongst those that need it.

MB Plans should consider 2nd 2:8
frequency. new equipment should
Reliable & afraid from 45 - to 50

Interchange of Power between
Departments
underland.
Reason. 10% 15% available needs
an equitable distribution of power.
military control

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

Tierra Colorada

Complete Cofrana
Galleta 1 set Base 2nd Div.
1 unit Caltagan sept 1945
1 San Jeronimo end 1945 66,000

ACEA

6 no. 41 - 1 unit in each plant will be operating.

shortage transmission line conductors
all companies & salvage coffer.
Gen Capt.
MB tran line Capacitor in utilities
tran program may become remain
as gen cap. becomes available
change of material may be necessary.

MB Plant preliminary Arroa / Descanso
line " Jacana

Ramana

130,000,000 KW H annual
30,000 + 30,000 Kw

2486

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

Acted

6 mo ... will be operating.

Shortage transmission line conductors
all campaines & salvage coffer.

MB Can line Engineer in charge of Eu Cap.
this program may become remain
as Eu Cap. becomes available
Change of material may be necessary.

MB Plant preliminary Arroa) Decision
line " Jacona)

Ramona

130,000,000 KW H annual
20,000 & 30,000 KW

1945 -
6 mo. 26,000 KW
6 mo. 30,000 KW {

Get details from myland

2485

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Chairman Major Barry

Program for Dec 31, 1944
Responsibility placed on A.C. of A F&H
M B. asked for comments on program.
Question No 2 explained.
(7)- Question explained
Planning till Dec 31, 1944
Present equipment available
How necessary & means to meet situation
#5/, plan was to meet emergency powers
Units installed in excess of water
available in certain locations.
Did not then give consideration to movement
of units due to time element.
How this should be considered and
done in spirit of cooperation.
Conclusion
Utilizing as much of existing
material as possible and
transfer of machinery.

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(7)- Question explan
Planning till Dec 31, 1944

Present equipment availble
How necessary & never to enter situation
#5/, plan was to meet emergency power
Units installed in spheres of water
available in certain locations.
did not thus give consideration & movement
of units due to time element.
Brass this should be considered and
done in spirit of cooperation.

Kuentzel
Utilizing as much of existing
material as feasible and
transfer & machining.

M. Berg credit situation will possibly
appear to point which will permit
implantation & machining
another later meeting should be
arranged when this is set up.

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

VSR/lam

Tel: 478906

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

5 Novembre 1944

OGGETTO: Riunione per discutere i progetti di riabilitazione.

AlLE : Soc. An. Terni per l'Industria e l'Elettricità
Azienda Comunale Elettricità ed Acque "A.C.E.A."
Società Romana di Elettricità "S.R.E."
Unione Esercizi Elettrici "U.N.E.S."
Società Elettrica Selt "Valdarno"
Soc. An. Per lo Sfruttamento delle Forze Endogene "Larderello"
Soc. Meridionale di Elettricità "S.M.E."
Ente Autonomo Volturno.

1. Quanto segue è estratto da un ordine ricevuto dal Quartiere Generale delle Forze Alleate AFHQ.

L'Electrical Reconstruction Committee eseguirà i seguenti compiti:

a. Si riunirà dietro invito del Presidente.

b. Suggerirà gli studi opportuni per determinare i fabbisogni di energia secondo le prevedibili necessità.

c. Suggerirà lo studio e la preparazione dei piani di riabilitazione secondo le prevedibili necessità.

d. Controllerà i piani di riabilitazione della Commissione Alleata mettendoli in relazione al fabbisogno, e ne consiglierà i limiti e la natura più opportuna.

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

g. Suggerirà, quando necessario, l'ente che dovrà eseguire un particolare lavoro di costruzione per la riabilitazione.

f. Darà ogni altro suggerimento che ritiene necessario per la riabilitazione.

La Commissione Alleata eseguirà i seguenti compiti:

1) Fornirà il Segretariato per l'Electrical Reconstruction Committee.

2) Sarà responsabile della preparazione dei piani di riabilitazione per l'Italia.

3) Manterrà il collegamento con l'AAI e si terrà informata della esistenza e condizioni delle centrali e probabili necessità per la riabilitazione nella zona di operazioni.

4) Dall'AAI, NATOUSA, CZ, Distretti (Br.) ed altre fonti si accerterà del fabbisogno dell'energia.

5) Sottoporrà all'Ing. Capo i progetti di riabilitazione per lo studio e la approvazione da parte dell'Electrical Reconstruction Committee.

6) Adoperando mano d'opera italiana e materiali locali, dirigerà e controllerà i lavori di costruzione per la riabilitazione e assicurerà il funzionamento degli impianti tranne quelli specificamente assegnati ad altri enti dall'AFHQ e con le eccezioni di cui ai paragrafi 2d (2) e 2e (1).

7) Darà alle Società Elettriche Italiane e agli altri Enti civili gli ordini necessari ad assicurare la esecuzione del programma di riabilitazione.

8) Terrà informato l'Ingegnere Capo della sua attività.

2. Per mettere la Commissione Alleata in grado di eseguire il compito di cui sopra riguardante la preparazione del progetto di riabilitazione per l'Italia si desidera che il Direttore o il Direttore Tecnico della Società a cui la presente è diretta, siano ambedue presenti ad una riunione che verrà tenuta nella Sala per Conferenze No. 27 al piano terreno della Commissione Alleata - Ministero delle Corporazioni - Via Veneto, Roma alle ore 10 del 10 Novembre 1944 e che essi siano preparati a discutere quanto segue:

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La preparazione di un progetto per rimbilitare nella maggiore misura possibile la capacità di produzione e di trasporto della propria Società entro il 31 Dicembre 1945, usando materiali e mezzi di costruzione locali. Per quanto va inteso l'uso di fonderie ed officine locali e di materiali già esistenti in Italia e che possano essere importati in breve tempo.

3. E' necessario che gli interessati partecipino alla riunione avendo con se i dati tecnici necessari per discutere i programmi preliminari in modo da poter poi procedere alla preparazione dei progetti definitivi al più presto dopo la riunione.

4. Si richiede che il contenuto di questa lettera non venga in alcun modo divulgato.

E. J. Barry

E.J. BARRY
Major, C.E.,
Actin Chief, Elect. Div.

20761

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

ELECTRICAL RECONSTRUCTION COMMITTEE

19 October, 1944

REPRESENTATIVES

COM. ZONE : Major J. W. Sibert, C.E.

A.A.I. ✓ : Lt. Col. A.W. Page, O.B.E., R.E.

A.C.C. ✓ : Lt. Col. Lapper or Major Batty

R. N. ✓ : Electrical Commander C.E. Hoggan, O.B.E., R.N.

MTOUSA

(1).

(2)

(3)

(4)

(5)

2482

E.R.C.
Fl.

INSTALLED AND ESTIMATED EFFECTIVE CAPACITY HYDRO AND THERMAL PLANTS ITALY 1941

Regions	Installed KW (+) 31/12/1941	Effective Capacity Estimated
Sardania	96,000	74,000
Sicily	91,600	74,000
South Italy	351,000	271,000
Central Italy	1,040,000	862,000
North Italy	4,645,000	3,800,000
TOTAL	6,223,600	5,081,000

(+) - Data from official publication of the Ministry of Public Works "Electric Power Production in Italy in 1941"

Date : 29 November 1944
Prepared for Lt.Col.L.A.JENNY
at request of Mr.Gillis

W.W. Laughlin
L.W.LAUGHLIN
Captain, C.E.

2-1847

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

APPENDIX "B"

ALLOTMENT OF ELECTRIC POWER - OCTOBER 1944

AREA SERVED	RESPONSIBILITY OF	PERMISSIBLE 15 Minute Peak KW x 10	PERMISSIBLE ENERGY KWH x 10 6
SOUTHERN ITALY			
APULIA CO.	3 DISTRICT	42.00	19.00
To ATES	3 DISTRICT	3.00	2.00
NAPLES DISTRICT	PBS	55.00	19.00
CAMPANIA CO.			
(i) Pomiglirio	3 DISTRICT	4.00	2.10
(ii) Salerno - Torre - Cost	3 DISTRICT	15.00	10.00
(iii) Benevento	3 DISTRICT	3.00	1.50
(iv) Calore	3 DISTRICT	1.50	0.70
(v) Santa Maria	PBS	5.50	2.30
LUCANIA CO.	3 DISTRICT	5.30	1.80
		118.30	58.40
CALABRIA 60 KV SYSTEM			
(i) Calabria Coy.	AC	9.50	3.20
(ii) Crotone Plant.	AC	2.00	1.30
		11.50	4.50
SICILY			
PALERMO AREA	150 KV System	DNR 1.00	0.70
FOGGIA - BENEVENTO	150 KV System	DNR 4.50	1.50
SALERNO-TARANTO	150 KV System	DNR 3.00	1.00
TOTAL Railway Loads on 150 KV System		8.00	3.20
CALABRIA on 60 KV System		3.00	1.50
		11.00	4.70
TOTAL 150 KV at Substations		126.30	61.60
TOTAL 60 KV at Substations		14.50	6.00
TOTAL 150 KV and 60 KV		140.80	67.60
TOTAL at Plants		154.00	81.50
CENTRAL ITALY - GRID			
AVEZZANO - COLLEFERRO	3 DISTRICT	0.65	0.32
"LIVENZA-CORVA (Soc.Veneta)	PBS	2.05	1.50
PERUGIA & FOLIGNO	1 DISTRICT	4.50	2.50
SPOLETO	1 DISTRICT	1.00	0.50
VITERBO & ORVIETO	1 DISTRICT	1.50	1.00
AREZZO	1 DISTRICT	1.00	0.50
SIENA	1 DISTRICT	1.00	0.50
ANCONA Province	1 DISTRICT =	1.00	0.50
MACERATA Province	1 DISTRICT =	1.00	0.50
ASCOLI Province	1 DISTRICT =	1.00	0.60
SENIGALLIA & PESARO	1 DISTRICT =	1.00	0.50
TERNI & District	1 DISTRICT =	8.00	8.00
BOLOGNA	5 ARMY	5.00	0.30
ROME	PBS = = =	30.00	15.00

2:31

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(iv) Celano	3 DISTRICT		1.50	0.70
(v) Santa Maria	PSS		5.50	2.30
LUCANIA CO.	5 DISTRICT		5.30	1.60
			118.30	58.40
CALABRIA 60 KV SYSTEM				
(i) Calabria Coy.	MG		9.50	3.20
(ii) Crotone Plant.	MG		2.00	1.30
			11.50	4.50
ITALIANS				
NAPLES AREA	150 KV System	HR	1.50	0.70
FOGGIA-BENEVENTO	150 KV System	DR	4.50	1.50
SALERNO-TORRE	150 KV System	HR	2.00	1.00
TOTAL Railway Load on 150 KV System			8.00	3.30
CALABRIA on 60 KV System			3.00	1.50
			11.00	4.70
TOTAL 150 KV at Substations			125.30	61.50
TOTAL 60 KV at Substations			1.50	6.00
TOTAL 150 KV and 60 KV			140.30	67.50
TOTAL at Plants			134.00	81.50

CENTRAL ITALY - GRID

STEFANO - COLLEFERRO	3 DISTRICT		0.60	0.32
CIVITAVECCHIA (Soc.Valsinia)	PSS		3.05	1.50
PERUGIA & FOLIGNO	1 DISTRICT		4.50	2.50
SPOLETO	1 DISTRICT		1.00	0.50
VITERBO & ORVIETO	1 DISTRICT		1.50	1.00
AREZZO	1 DISTRICT		1.00	0.60
SIENA	1 DISTRICT		1.00	0.50
ANCONA Province	1 DISTRICT	=	1.00	0.50
MACERATA Province	1 DISTRICT	=	1.00	0.50
ASCOLI Province	1 DISTRICT	=	1.00	0.60
SENIGALLIA & PESARO	1 DISTRICT	=	1.00	0.50
TERNI & District	1 DISTRICT	=	5.00	6.00
BOLOGNA	5 AREA		5.00	0.30
ROME	RAIL	= = =	30.00	15.00
OPTE-FOLIGNO-GUIDONIA Railway	1 DISTRICT	= =	5.00	1.50

CENTRAL ITALY - NON-GRID

ANCONA Province	1 DISTRICT		2.70	1.50
AREZZO	1 DISTRICT		1.00	0.60
ASCOLI Province	1 DISTRICT		2.50	1.40
MACERATA Province	1 DISTRICT		1.00	0.60
TOLENTINO Area	1 DISTRICT		1.30	0.50
FLORENCE	1 DISTRICT		15.00	= 3.50
SIENA	1 DISTRICT		0.50	0.30
PERUGIA & FOLIGNO	1 DISTRICT		1.00	0.50
TOTAL GRID			64.68	32.16
TOTAL NON-GRID			24.70	8.90

/.....OVER

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* Dependent on altitude with engines [illegible]
* " 2,000 ft to be available on 2/3 [illegible]
subject to altitude with engines [illegible]
* * Plus an amount as REQUIRED [illegible]

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

Tel. 546

LDD/ee

HEADQUARTERS
ALLIED CONTROL COMMISSION
ECONOMIC SECTION
APO 394

ES/15

25 October 1944

MEMORANDUM FOR THE CHIEF OF STAFF :

Subject : Power Rehabilitation and Personnel for Public Works and Utilities Sub-Commission

1) - Reference your memorandum 5406/53 COS 12 Oct. 44, above subject.

2) - AFHQ memorandum 43 of 5 October referred to in your memorandum places the responsibility for planning and supervision of all electrical rehabilitation in Italy on ACC. See para 2 (c). Inclosure N. 1 hereto shows personnel requirements for Public Works and Utilities Sub-Commission for work of rehabilitation of Italian electric power facilities.

3) - It is requested that the so-called field team of the Public Works and Utilities Sub-Commission be increased from a ceiling of 5 to a ceiling of 10 and that the 5 additional officers be made available immediately, the 5 additional officers to have qualifications as will be indicated by P.W. & U. S/C to G- 1.

4) - At present there are 8 officers of the P.W. & U. S/C in the various regions. It is requested that the ceiling be increased from 8 t o 37. Such additional officers are to be assigned as selected by P.W. & U. S/C from time to time over the next two or three months based on requirements.

5) - For justification of above request see inclosure N. 1.

6) - This matter is considered urgent.

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

Incl. - s/a
cc : Establishment Section
P. W. & U. S/C

22 No 044

State invite

Excel We may have away - manager and meeting

2a (1) adm 43

Basic change by A.E.N.O below line.
Not here.
Entrance - on each document duties of all agencies.
Mrs. McComb - state supervision by committee.
Aim to set up definite responsibility with state sub by A.E.N.O
N.C. assume lead on district.

(2) - State officers Secretary

(3) - " "

2(b) and U.S.B. began to assume resp. of A.C.
E.R.C. is policy board.
Review plans by C.C. and see how they are coordinated with other agencies
Members - encourage to propose plans.
Review suggestions and plans.
make conclusions.

C- No intention to interfere with work of Concerned except for more research

C-4 Only very general rehabilitation by state emphasis for aged.
Rely on general.

C-7- Important. need unemployables - job of A.C.

C-8- Complimentary work given above.

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Not bad.
Intention - to coordinate activities of all agencies.
A.G. McCook - staff supervision by committee
Aim to set up definite responsibility upon staff sup by - A.F.N.G
A.C. in some local as districts

(2) - Staff officers functions

(3) - " " "

2(b) - add O.C.B. began to assume resp. of A.C.
C.R.C. in policy board.
Reviews plans G.C. and see that they are coordinated with other agencies

Members - encourage & prepare plans.
Review suggestions and plans.
Make conclusions.

C- No intention to interfere with work of forward areas. Not close liaison

C-5
C-6 Only very few mobile reholders On in Italy except for areas.
Rely on forces in.
C-7- Important. and unconditional order - pub by A.C.
C-8- Confirmed with your cable;

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(d) No entrance with AAI in formed area coordinate with A.C.

(e) - 1 CZ AFATOUSA - cancel monday last no communication
Hq to discard and discard by MTOUSA

C-2 No interference with frequency, in low density as long as operational, but when became constant stand A.C. has an important say

C-3 - no crew OK

3- smoke frequency - will come down straight command channels materials supplied by A.C.

4- No additional personnel will be available

By Page K-7 & L-2 -
Ltr Def when head offices not located in forward area
Def off - will be contacted by AAI
A.M.A. crew not clear at K-9. go direct to company.

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(c) - 1 CZ A TOUSA - Cond Anchy rec'd
ms communication
14th decoded and checked by 11TOUSA

C-2 Re interference with frequencies in box dashed
as long as operational but when become
similar stud A.C. has an important say

C-3 - as over OK

3- Smoke frequencies - will come down
through canned channels
materials needed by A.C.

4- Re additional personnel will be available

By Page K-7 & L-2 -
What = when Dest off. unit be contacted by HAE
H.M.S. men not cleared 5 mg. go direct to
company.

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2 Membership

Gen. Board.
Military Aerials. No 3 not to be
represented.
only change MYOUSA & change to B. Board.
Legal. Letter - mimeod stat. No 3 be revised. Immediately
2nd by Legal. Page.

3 - Hdq Letter
page 2 trans, repeters
Maj. Bertan - Not - desk - much help.
Generating equipment the virtual phase
not transmission.
more land. Lines + Cables - less loss - more exp.
100 K - for month. for 2 month
1800 - Km - inhabitants in Central Italy.
We. Part is trans line & Po valley.
OK to Balagna - one good line by
Canabalyattan - less ____ trans.

trans - 3 phases.
130 - 16,000 cu - $2476 m
15,000 cu - Balagna by end
Dec.

Dec 31

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

[illegible] destits. No 3 not to be represented.

only change MTOUSA & change to O. Base.

Htel. Taffer - mand dot No 3 be initiated immediately
2nd Ltr Htel. page.

3 - Htel Taffer page 2 trans. systems.

maj Renten - Hot - desk - much help.

Terminating equipment the critical phase
not transmission.

more tens. Lines + Clarence - less loss - more cap.

100 K — for month. for 2 month
1800 - Kcm - rehabilitates in Central Italy.

WC. that is trans line & Po valley.
OK to Balagna - one good line by
Canabalupadam - use ——— troops.

term - 3 Hops.

130 - 16,000 cw - 2475 mw
15,000 kw - Balagna by end Dec.

R.R. - Pinaffetta - Dec. 31,

L. Iam - 3 Hops R.R. - 120 KC 40,000 kws 1 mi. O-K- Terme - Florence
120 KC 1 mi would make 10,000 kw in Po

put in synchronous condenser.
Complete estimates 2 plant in operation unit cost.

Total. Early plan for next cost
Piers & Del Rocar reservoir in
hands of enemy.
Plants designed for 3 unit.
Steam plant should carry one units.

16 units unit & 10 united & N-
5-6 to held in reserve.

May Berry rehabilitation 2 of 4 units & cream
completed Dec. 1945-
22,000 1 stage
16,000 2 nd.
Contractors damages units & wafers.
cement. & insulating materials.
reinforc cost cost. - toward some
toward wafers.
Insurance of contents in case Telefunken
San Gerardo - term co.
Equipment & Transp - 66,000 Sept 1945

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Ideal Early plan for next coast
Pearl Del Rocar Nebraska
bounds of enemy.
Plants designed for 3 unit.
- Steam plant should carry one unit.

10 units wit & 10 united & N
5 to be held in reserve.

Maj Bovey Rehabilitation 2 of 4 units Pearson
completed Dec. 1945
22,000 1 story
16,000 2 nd.
- Construction Damage units & wafles.
cement. & Insulating materials.
reinforc cost coast. - Tower home
Tower wafles.
Insurance of contents in case Life factor
San Francisco - term co.
Cement & Tramp - 66,277 Sept 1945

Mccoach - Depends on amount of cement & tonnage.

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

6 - 3½ mm
50 - 20, mm
45 - 22, mm

offset by line loss in transforming

motion & loss frequency & floating
Plant at 50 ~~K~~ and repair
charges at (Plant) 17 ~~KW~~
Riccicone 15,000 KW.

remic area takes 150,000 kw 3:9 - 45,000
S.W.A.I & look into who will repair unit.
Location of Unit & to determined at
a later meeting.

5 - ordering equipment for
naval Italy, ~~Alg~~ A. A. I ~~to~~
make estimate & situation and
plan Neg. for another floating
unit. ~~from~~ SHAEF based
on actual necessity.

Date next meeting 18 ~~X~~ 2:30 P.m.
afternoon same day & Com. Com meeting

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set up program & A.F.N.Q as projects
for approval listing land matters
etc.

location, & to be produced.
and power & to be finished.

Hdqt. Letter & submit - mentioned
projects for central Valley -
next meeting - get approval of E.R.C,
and then build & taken & A.F.H.Q
for approval and priority -
30% will be about skeleton & Engineer capacity as
military.

East Coast - Hdqt Page
to E is devoid of power.
need power for Ravena area.
A.P. line 120 sub Rimini & Fadvella.
& Ariciana - will give load & Venice
is a steel tower line - 5 - down
Jct & chief Eng works 8th Army - can handle.
matters. Maj major Org - matters approved.

Healthy. Load Rocca 247½ rd unit.
Rome load 1 march 11 na

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and power [illegible]
when it is finished.

Utah. Left to submit - municipal projects for central Valley - next meeting - get approval of E.R.C. and then bid to taken to F.P.H.A for approval and priority.

30% will be about absolute capacity as military.

East Coast - Atlantic Page

We E is devoid of power.
need power for Ravena area.
A.B. line 120 mile Pennsylvania to Fairbanks.
& Richland - will give load to Penna
is a steel tower line - 5 days
Jct & Chief Eng works 8th army - can handle.
matter they major Org - matter approved.

Valley

Ocain Creek Rocco 247½ mi unit
can be supplied by 1 mach 11,02
Peria 2,000 N Jan
Tolleson 6,000 1 mach
19,000 kw (over)

Power produced will notify Lend to Area.

11,000 30 men of 1 Lt Rn during 2 mo
B. E. 1 Rn Cs

Lt Cadby station & go ahead and
work 2 nd Lt Col Taffe- station
carried.

4. Lt Col. Taffe report on Impts U.S. and report No 4

Req for English agencies should come from A.A.I

Descriptions & Req for annulating materials be on a military basis

30,000 - 60 - 25,000 50 tracks

April 1941

Descriptions which unit to be on east & west coast.

1- Between inlet
2- many men flats in use.
3- Coal may be badly damaged
4- No mens & putting - gates in quickly
5- Areas - needed for towns - docks.
roading derrick, water supply
machine shops - Drainage dumpbarges.

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

Lt Bailey matter to go ahead and
have 2nd Lt Col Kaffa - matter
carried.

4. Lt Col. Kaffa report in Impl U.S.
and report No 4

Req for Eighth equipment should come
from A.A.A.I

Discussion of Req. for simulating
materials in a military basis

30,000 - 60 - 25,000 50 marks
April 1941 -

discussion whether unit to be sent
to areas east.

1- Germans in Iraq
2- many more flights in west.
3- East may be badly damaged
4- No means of putting gasoline quickly
5- Areas - needed for bases - docks.
washing decks, water supply
machine shops - drainage dumps etc.
~~Iraq~~
6- Persia may be moved

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

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

RESTRICTED

ALLIED FORCE HEADQUARTERS
APO 512

AG 675/055 GD3 - 0

18 Oct. 44

Subject : Electricity Control

To : Commander-in-Chief, Allied Armies in Italy
Commanding General, Communication Zone, NATOUSA, APO 750
General Officer Commanding, No. 2 District
General officer Commanding, No. 3 District
Commanding General, Rome Allied Area Command.

1) - Letter, Allied Force Headquarters Advance Administrative Echelon, Central Mediterranean Force, file 53/8/G2, dated 4 February 1944, subject : "Electricity Control" is rescinded, an in lieu thereof the following instructions apply.

2) - The Supply of Electricity in occupied ITALY is limited, and strict control is essential in order that its use may be diveted to the war effort and not wasted. Bulk allocations of all electric power throughout the occupied mainland of ITALY are made at the monthly meetings of the Electric Power Committee of which you have membership.

3) - The attached schedule, which will be revised each month, shows the limits of supply which will be made available in each area. The maximum peak demand is shown as well as the total consumption permissible. The controlling organizations listed above are responsible for insuring that these figures are not exceeded.

4) - The responsibility for local control will rest with the Military Commander in each area. Close coorindation with the local Allied Military Government - Allied Control Commission representative will be effected. The connected loads will be limited by restricting the number and size of new connections and by checking existing connections to see that they are not loaded beyond strict necessity. Non essential loads will be cut off completely. Steps will be taken to insure that electrical capacity available is allocated to essential military and civil needs. A list will be made in each area indicating the priority rating of all connections.

5) - Arrangements as are necessary will be made to carry out a local system of control.

By command of General WILSON

H.V. [illegible]
Colonel, AGD
Adjutant General

217?

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

RESTRICTED

ALLIED FORCE HEADQUARTERS
APO 512

ADMINISTRATIVE MEMORANDUM
Number 43 5 October 1944

POWER REHABILITATION

1) - The function of power rehabilitation having been transferred to control of AFHQ the following will govern :

2) - (a) The Chief Engineer, AFHQ, will
1) Exercise staff supervision of power rehabilitation activities
2) Recommend rehabilitation policies
3) Coordinate power rehabilitation activities of the various agencies concerned.

(b) Electrical Reconstruction Committee
1) The Central Electrical Board, Italy, is dissolved. There is hereby created an Electrical Reconstruction Committee (Italy), with membership as follows :
Chief Engineer AFHQ (Chairman)
Representatives of : ACC, R.N., AAI and CZ, NATOUSA. It is requested that ACC, R.N., AAI and CZ, NATOUSA, advise AFHQ of representatives selected for membership.

2) The Electrical Reconstruction Committee will :
a) Meet at the call of the Chairman
b) Recommend studies for determining power requirements as may be required
c) Recommend study of and preparation of plans for power rehabilitation as may be required
d) Review ACC plans for power rehabilitation, correlating them with the requirements and make recommendations as to extent and nature of rehabilitation
e) Recommend designation of agency to perform specific construction work of rehabilitation, when necessary
f) Make such other recommendations regarding power rehabilitation as it seems necessary.

(c) The ACC will :
1) Furnish Secretariat for the Electrical Reconstruction Committee
2) Be responsible for planning power rehabilitation throughout Italy
3) Maintain liaison with AAI and keep informed as to existence and condition of power plants and probable rehabilitation needs in operational area.
4) Ascertain power requirements from AAI, CZ, NATOUSA, Districts (Br) and other sources

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5) Submit plans for rehabilitation to the Chief Engineer for consideration and approval of the Electrical Reconstruction Committee
6) Using Italian labor and local materials, direct, administer and supervise construction work of rehabilitation and operate the power systems by AFHQ and except as provides in paragraphs 2d and 2e (1)
7) Will issue all orders necessary to implement the program to Italian Power Companies or other civilian agencies.
8) Keep the Chief Engineer, AFHQ advised of its activities.

(d) AAI will :
1) Cooperate with ACC in determining existence and condition of power plants and probable rehabilitation needs in the operational area
2) Insofar as practicable initiation, construct and operate such power installations within the operational area as it considers necessary, coordinating with plans of ACC
3) Advise the Chief Engineer, AFHQ of any power rehabilitation work undertaken

(e) CZ, NATOUSA and Districts (Br) under command AFHQ will :
1) Initiate, construct and operate such power installations as are required locally for their own activities
2) Undertake such general power rehabilitation projects as may be specifically assigned by AFHQ
3) Cooperate with ACC and AAI and render them such aid and assistance as is practicable within available means and without detriment to their own operations
4) Advise the Chief Engineer, AFHQ, of any power rehabilitation work undertaken

3) Orders to implement plans will be issued through normal staff channels in respect to work for which military agencies are to be responsible.

4) The agencies mentioned above will furnish the required personnel from their own allotments.

By command of General WILSON

R.V.ROBERTS
Colonel, AGD
Adjutant General

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Vol. 546

LDD/ds

HEADQUARTERS
ALLIED CONTROL COMMISSION
ECONOMIC SECTION
APO 394

ES/15

25 October 1944

MEMORANDUM FOR THE CHIEF OF STAFF :

Subject : Power Rehabilitation and Personnel for Public Works and Utilities Sub-Commission

1) - Reference your memorandum 5406/53 COS 22 Oct. 44, above subject.

2) - AFHQ memorandum 43 of 5 October referred to in your memorandum places the responsibility for planning and supervision of all electrical rehabilitation in Italy on ACC. See para 2 (c). Inclosure N. 1 hereto shows personnel requirements for Public Works and Utilities Sub-Commission for work of rehabilitation of Italian electric power facilities.

3) - It is requested that the so-called field team of the Public Works and Utilities Sub-Commission be increased from a ceiling of 5 to a ceiling of 10 and that the 5 additional officers be made available immediately, the 5 additional officers to have qualifications as will be indicated by P.W. & U. S/C to G- 1.

4) - At present there are 8 officers of the P.W. & U. S/C in the various regions. It is requested that the ceiling be increased from 8 t o 37. Such additional officers are to be assigned as selected by P.W. & U. S/C from time to time over the next two or three months based on requirements.

5) - For justification of above request see inclosure N. 1.

6) - This matter is considered urgent.

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

Incl. - n/a
cc : Establishment Section
P. W. & U. S/C

2473

20991

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

Tel:4809081

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

ACC/153/PWU

22 Aug.44

SUBJECT : Electric Power Allocations for Sept.44

TO : Regional Engineer

Capt. Ryan	3
Reg. South	2
Reg. IV	2
Reg. V	3
Reg. VIII	2
File	1
L R B P	1
Maj. Wooster	1
Maj. Ranton	1
Maj. Berry	1
Col. Lapper(HRO)	1

The attached letter from HQ. AAI 9131/1/32 dated 19 Aug,44 is forwarded for information .

W.N.LAPPER,
Lieut-Colonel,
Chief, Util.& Adm.Div.

WORKS AND UTILITIES SUB-COMM. OFFICIAL

2169

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

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

18 AUG Recd

Subject:- Central Electrical Board. C.M.S. Public Works & Utilities

HQ AAI,
C.M.F.

2131/Q2.

15 Aug 44.

Vice Chairman,
Central Electrical Board.

1. It has been decided to dissolve the AAI Central Electrical Board and the appropriate instructions are in the process of being issued. In view of the fact that there may be some delay and that in the meantime, it is desirable to avoid duplication, you are hereby instructed to move from your present location in Via Poli, RCHS, to the 8th Floor of HQ ACC Buildings, RCHS, where arrangements have been made for your accommodation. You should contact the Chief Electrical Engineer, Public Works & Utilities Sub Commission, ACC, on arrival and arrange for him to have full access to your records, etc.

2. You should ensure that all concerned are notified in advance of your change of location.

Major-General,
Chief Administrative Officer.

Copy to:- Public Works & Utilities Sub Commission, ACC.
CE, AAI.
Local Resources Section.

HEADQUARTERS
17 AUG 1944
A. C. C.

2468

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

15 AUG Recd

17' cys.

21 PRW40

Subject:- Dissolution of C.E.B.

Directorate of Works,
H.Q. A.A.I. C.M.F.

2058/Dir

To :- C.(E.M.).

Ref. this office 2058/Dir of 6 Jul 44 forwarding a copy of Signal FX6313 of 21 June 44 from A.F.H.Q.

1. No letter giving further details has been received.

2. The C.E.B. is in process of being dissolved.

3. It has been recommended that the functions of the C.E.B. be taken over by A.C.S. and be vested in an Electrical Reconstruction Committee, the Vice Chairman of which (Lt. Col. Lepper) will be the Chief, Electrical and Utilities Div., Public Works and Utilities Sub Commission, A.C.S.

4. The question now arises as to who will staff this Electrical Re-construction Committee.

5. As you can see from the attached copy of A.C.S. letter, AG/171/Gen of 30 Jul 44, C.M.F. H.Q. A.A.I. is being asked to hand over files, personnel and tpt. Files can, of course, be handed over there in connection, but of personnel, one officer and one clerk are on loan from this Directorate, while one officer is on loan from A.C.S. and the only vehicle is on loan from P.B.S.

6. It therefore seems that personnel and tpt on loan should be returned to their respective H.Q. and that A.C.S. should staff the Committee.

7. Will you please give or obtain a ruling?

HEADQUARTERS
15 AUG 1944
A. C. C.

W. H. O'Connell,
Colonel,
for Director,
Directorate of Works.

Copy to:- 'Q' - with copy of A.C.S. letter.
Your 2151/2 of 22 Jul 44 appears to refer in connection with paras 2 & 3 above. Paras 8 & 9 of that letter also imply that A.C.S. should supply the permanent Secretariat.
C.E., C.M.F. A.A.I. - Ref this office 2058/Dir of 5 Aug 44, copy to you.
E.W. & M.O., A.C.S.
File 2058/Dir.
File 2058/Dir.

Lt Col Lepper
2467
Aug 15/8

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

2103

Subject:- Electric Power. 158 ab

To:- Public Works & Utilities Sub Commission, H.Q. A.C.C.

Directorate of Works, H.Q. A.A.I. C.M.F.

2052/DW

7 Aug 44

DW Recd

For attention of Lt. Col. Lapper.

Herewith an attempt to put our discussions (Lt. Cols. Lapper- Smith) on paper. It may help our deliberations next Tuesday by forming a basis for the discussion.

W. A. R. SMITH,
Lt. Col. R.E.,
for Brigadier,
Director of Works.

Lt Col Lapper

Wed 8/8

2166

BRIEF APPRECIATION OF THE ELECTRIC POWER SITUATION 30TH JULY
by Lt. Col. W.A.R.Smith, R.E.

OBJECT:

To provide electric power for all military and essential civilian requirements in occupied ITALY.

FACTORS:

(i) Taking occupied ITALY as a whole, 54.4% of the plant has been totally destroyed and of the 32.6% remaining, 30% is not in a position to generate power owing to lack of water (or fuel). This means that there are many stations where the plant is totally destroyed but with usuable water and headworks. Likewise there are stations with plant intact lying idle for want of adequate water. In only a few cases is it possible to effect a transfer of plant as the "heads" vary in each station.

(ii) In the case of thermal stations the question of plant transference only arises where boilers and turbo alternators can be similarly matched, and at present such cases are rare.

(iii) Thermal stations generally require imported fuel and this means a waste of war effort if Hydro-power can be made available.

(iv) The country is thoroughly gridded with transmission lines, most of which are not seriously damaged. There are difficulties in the way of long distance transmission, e.g. differences in frequency - voltage - line reactance etc., but with available plant it is generally speaking true to say that power can be passed from generating station to consumer irrespective of their locations provided proper control is exercised. It is not, therefore, correct to consider generating plant as of primarily local interest, but that it all belongs to one "pool" of power for use where it is required, with the usual loss of approximately 10% en route.

(v) To effect transmission and generation to the best possible advantage will involve considerable reconstruction work and the movement of heavy equipment such as transformers and generating plant possibly weighing 100 tons each set and large synchronous condensers - switch gear etc. Many side roads are at present impassable due to enemy demolitions and to carry through such movements involves some road construction and bridging.

(vi) Detailed investigation by A.C.C. into the "end use" of power revealed that apart from purely domestic uses such as house lighting it was virtually impossible to separate military and civilian consumption. Trams used solely by civilians are necessary to transport civilians who work exclusively for military or Naval purposes. Nearly all factories are directly or indirectly involved in production for military purposes, and interference with production is normally reflected in reduced output for military purposes. It is therefore not possible to consider Power generation and Transmission on a large scale as either wholly Military or wholly Civilian in any area. It is, however, quite possible to consider areas which are basically civilian as of minor military importance.

COURSES OPEN:

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2 10

COURSES OPEN:

(i) To accept Electricity as a basic military necessity throughout and to plan reconstruction under purely military direction.

This is considered undesirable as it would require a large military staff to deal with it effectively. Further, military procedure through staff channels tends to be slow and execution under local military commanders leads to changes in responsibility as military boundaries change.

(ii) To relegate the responsibility to civilian firms who own or control the systems - aided possibly from time to time from military sources where the work is of high military importance.

This is unsound as plant and equipment frequently can be best used in localities outside a particular company's jurisdiction. Further, the natural tendency would be for available labour and materials to be employed for the benefit of large centres of population irrespective of military requirements.

/(iii) .....

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(iii) To form a combination of (i) and (ii) so that fullest possible use is made of civilian effort while retaining sufficient military control to ensure that all military requirements are met with the minimum military commitment.

This appears the best solution but requires careful organisation and goodwill on all sides if it is to prove effective. It will require some time to become operative.

PLAN:

(i) To take immediate steps to assist work now in hand which is obviously going to be necessary, e.g., the repair of slightly damaged plant and transmission lines - the overhaul of neglected plant - the movement of plant not at present workable to places where it can be got to work. This may be called the short term plan or Phase I.

(ii) To form a central planning committee to consider the long term or Phase II policy on fairly broad lines. M.A. A.A.I. Ratification to decisions would be necessary.

(iii) To form regional planning committees to consider detailed plans in specific regions. Local military commander's approval would be necessary.

It is considered that both the central and regional committees should include the following:-

Reps: Military (& R.N. where necessary).
A.C.C.
Civilian Electrical Firms,
A.M.G. or Italian Government.

The representatives should normally be engineers who understand enough about electrical matters to take an active part in the planning.

(iv) Decentralisation of authority to use military labour, transport and materials is considered most desirable so that work on local plans can start without delay. Only where the plan involves a departure from stated policy or requires co-ordination with adjoining regions would reference to the central committee be necessary.

(v) The responsibility for maintaining continuous contact between all parties concerned should rest with A.C.C. who have representatives in all regions including Army Areas.

W. A. H. SMITH,
Lt. Colonel, R.E.,
for Brigadier,
Director of Works.

6 Aug. 44.

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A.M.G. or Italian Government.

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W. A. R. SMITH,
Lt. Colonel, R.E.,
for Brigadier,
Director of Works.

6 Aug. 44.

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

Draft

Minutes of the first meeting of the Electrical Reconstruction Committee held at the office of the CE HQ AAI at 14:15 hours on Tuesday 8th August 1944.

Present:

Major General N.A. Coxwell Rogers	Chairman
Lt.Col. W.M. Lapper	Vice Chairman
Lt.Col. W.A.R. Smith	D.D.W.
Lt.Col. G. Cooley	C.B.S.
Comdr. L.E. Hoggan	R.N.
Major E.J. Barry	A.C.C.

Min. 1. Organisation of Electrical Reconstruction Committee Italy.

The Chairman Stated that the Central Electrical Board had been abolished and its functions taken over by the Electrical reconstruction committee Italy. The members present would constitute the committee, but other persons would be invited to attend as and when occasion arose. A letter regarding this matter was shortly to be circulated to all concerned.
A draft letter outlining the organisation of the new committee and setting up Area Advisary Committees was discussed. It was agreed that the C.A.C. A.A.I. be asked to circulate the letter to the services concerned. A.C.C. would on receipt of the letter pass the necessary information to the Italian Government and the Electrical Companies.

Min. 2. Review of electrical reconstruction programme.

The reconstruction programme at present being carried out was discussed. The Chairman Stated that it would be necessary to withdraw the military assistance from the Matese II plant.
It was left to A.C.C. to decide whether the Alto Belice plant was still to be [illegible]

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Lt.Col. W.M. Lapper	Vice Chairman
Lt.Col. W.A.R. Smith	D.D.W.
Lt.Col. G. Cooley	C.R.S.
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A draft letter outlining the organisation of the new committee and setting up Area Advisory Committees was discussed. It was agreed that the C.A.C. A.A.I. be asked to circulate the letter to the services concerned. A.C.C. would on receipt of the letter pass the necessary information to the Italian Government and the Electrical Companies.

Min. 2. Review of electrical reconstruction programme.

The reconstruction programme at present being carried out was discussed. The Chairman Stated that it would be necessary to withdraw the military assistance from the Matese II plant.
It was left to A.C.C. to decide whether the Alto Belice plant was still to be installed at Matese II. The Vice Chairman agreed to communicate with Societa Meridionale di Elettricita regarding this matter. Commander Hoggan requested that the field Coils belonging to the Matese I plant under repair at Naval - Meccanica be sent so that the Rotor balancing could be completed. Major Barry agreed to make the necessary arrangements. Major Barry stated that he desired the Bailey bridge to remain in the road from Matese II until the plant had been removed to date. The Chairman agreed for this to remain, Lt.Col. Smith to make the necessary arrangements.

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Min. 3. Proposal for restoration of electricity supplies.

The Vice Chairman explained that A.C.C. engineers had now made a preliminary survey of the electrical Generating facilities in Central Italy. It was perfectly clear that if rapid rehabilitation was to be done sufficient to allow a reasonable amount of electrical energy to be made available for the Military and essential Civilian Services it was necessary to consider the importation of electrical Generating plant.
After a discussion it was resolved that:-

A "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."

W.M. LAPPER,
Lieut-Colonel,
Vice Chairman
Electrical Reconstruction
Committee, Italy.

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In view of the urgency of the matter it is recommended that floating Power plants, if available, should be provided.

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Lieut-Colonel,
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Electrical Reconstruction
Committee, Italy.

2462

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Tel: 489051

WMI/ISF

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

ACC/LTC/PWU

5 August 1944.

SUBJECT: First Meeting, Electrical Reconstruction Committee, Italy.
TO : Distribution below.

1. A meeting will be held in the office of the C.C. H.Q., A.A.I., 4th floor, at 1/15 hours on Tuesday, 8 August 1944.

2. As this is the first meeting of the Electrical Reconstruction Committee, Italy, it is hoped that arrangements can be made for your representative to be in attendance.

3. AGENDA

(a) To discuss the purpose and organization of the Electrical Reconstruction Committee, Italy.

(b) To review the present electrical reconstruction program.

(c) To consider a proposal for restoration of electricity supplies.

(d) Any other business.

W. M. LAFFER,
Lieut-Colonel,
Vice Chairman
Electrical Reconstruction
Committee, Italy.

DISTRIBUTION:
C.C. H.Q. A.A.I.
C.C., P.B.S.
D.W. H.Q. A.A.I.
Flag Officer Western Italy.
H.Q. A.C.C.
File.

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Suggested letter to be sent by G4O, A.A.I., to the following services. A.C.C. will, on receipt of the letter, make the necessary arrangements for representatives from the Italian Government and the Electrical Power Companies to be informed of the committee.

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1. Your attention is directed to the letter ref. dated in which it is stated that the Central Electrical Board is dissolved and replaced by a Committee called the "Electrical Reconstruction Committee Italy".

2. The first meeting of the "Electrical Reconstruction Committee Italy" was held at HQ., A.A.I., on 8 Aug 44, when it was agreed that the rehabilitation work could best be dealt with by a certain amount of decentralisation under which arrangement Area Advisory Committees, after examination of schemes would recommend that work be carried out leaving the Electrical Reconstruction Committee to give consideration to the over-all problem of Italian electrification.

3. The Area Committees will be known as "Advisory Committees on Italian Electrification" and they will operate in the following areas:

(a) South Italy:
Advisory Committee on Italian Electrification, meetings to be held at NAPLES,

(b) Central Italy:
Advisory Committee on Italian Electrification, meetings to be held in ROME,

(c) North Italy:
Advisory Committee on Italian Electrification, meetings to be held at a place to be notified later dependent upon operational conditions.

4. The "Advisory Committee on Italian Electrification" will be composed of representatives from the following:

(a) Chief Engineers Army Districts involved,
(b) Base Sections Involved.
(c) Royal Navy.
(d) Allied Control Commission.
(e) Area Electrical Advisor Italian Government,
(f) Chief Engineers electrical power companies involved.

5. The general procedure will be for the Electrical Division of the Public Works and Utilities Sub-Commission of Allied Control Commission to develop schemes in conjunction with the electrical power companies for the rehabilitation of electricity supplies within each advisory area. Complete schemes together with supporting technical data and justification will be in the hands of each member of the area advisory committee seven days prior to the date of the meeting.

6. The Vice-Chairman of the "Electrical Reconstruction Committee Italy" will be ex

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at HQ., A.A.I., on 8 Aug 44, when it was agreed that the rehabilitation work could best be dealt with by a certain amount of decentralisation under which arrangement Area Advisory Committees, after examination of schemes would recommend that work be carried out leaving the Electrical Reconstruction Committee to give consideration to the over-all problem of Italian electrification.

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6. The Vice-Chairman of the "Electrical Reconstruction Committee Italy" will be ex officio Chairman of each of the area committees. He will be responsible for the calling of committee meetings, provision of secretariat and for presentation of electrical development schemes to the committee.

7. As additional supplies of electricity are most urgently required for military and essential civilian services, it is requested that all members of the Area Advisory Committees will do everything possible to give assistance to the electrical companies in the carrying out of schemes for rehabilitation work.

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

ELECTRICAL POSITION IN CENTRAL ITALY

as of August 7th. 1944

1. ORIGINAL CAPACITY OF GENERATING STATIONS IN CENTRAL ITALY — KW. 892,000

2. GENERATING CAPACITY AVAILABLE ON AUGUST 7th. 1944

		KW.	
Bolognola	(Macerata)	800	
Carassai	(Ascoli P.)	400	
Pedaso	(Ascoli P.)	1.300	
Altolina	(Perugia)	600	
Sec. Stat.	(Umbria)	400	
Steam	(Rieti)	300	
Steam & Diesel	(Rome)	30.000	
Vulci	(Rome)	1.000	
Traponso	(Viterbo)	400	
S.Savino	do	750	
Fioritella	do	750	
Nera Montoro	(Terni)	7.000	
Vesta	(Rome)	2.000	
Arci	(Rome)	1.100	
Subiaco	(Rome)	2.500	
Scalelle	(Frosinone)	2.000	
Comunacqua	do	2.400	
	TOTAL	53.700	53.700
(Est.Total with Maximum stream flow)		83.700	

3. STATIONS UNDER REPAIR AND ESTIMATED DATE OF COMPLETION.

	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
	KW.	KW.	KW.	KW.	KW.	KW.
Larderello	3000	3000				
Cervaro		2000			2000	
Cerreano			7000			

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ON AUGUST 7th. 1944		KW.	
Bolognola	(Macerata)	800	
Carassai	(Ascoli P.)	400	
Pedaso	(Ascoli P.)	1.300	
Altolina	(Perugia)	600	
Sec. Stat.	(Umbria)	400	
Steam	(Rieti)	300	
Steam & Diesel	(Rome)	30.000	
Vulci	(Rome)	1.000	
Traponso	(Viterbo)	400	
S.Savino	do	750	
Fieritella	do	750	
Nera Montoro	(Terni)	7.000	
Vesta	(Rome)	2.000	
Arci	(Rome)	1.100	
Subiaco	(Rome)	2.500	
Scalelle	(Frosinone)	2.000	
Comunacqua	do	2.400	
	TOTAL	53.700	53.700
(Est.Total with Maximum stream flow)		83.700	

3. STATIONS UNDER REPAIR AND ESTIMATED DATE OF COMPLETION.

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	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
	KW.	KW.	KW.	KW.	KW.	KW.
Larderello	3000	3000				
Cervaro		2000			2000	
Cerprano			7000			
Farfa II				4000		
Galleto						35000
Selvena						1000
TOTAL	3000	5000	7000	4000	2000	36000

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4. CONTEMPLATED MOVEMENT OF PLANTS.

		Est. Completion
Ceprano Pedaso	1 x 5000 KW to Acquoria 1 x 2250 KW to Castellano	Nov. 44
Ceprano Calore Alto Belice Bolognola	1 x 5000 KW to Castelmadama 1 x 8600 KW to Gallato 1 x 3150 KW to Matese II 1 x 2000 KW to Venamartello	Dec. 44
Matese I	1 x 5000 KW to Lete	Jan. 45

5. SUMMARY.

	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
	KW.	KW.	KW.	KW.	KW.	KW.
(a) Present capacity	53700	53700	53700	53700	53700	53700
(b) Capacity of Repaired plant	3000	8000	15000	19000	21000	57000
(c) Capacity due to increase in Stream flow	--	9000	18000	25000	30000	20000
(d) Capacity due to moving of Plants	--	--	7250	26000	31000	31000
TOTAL effective capacity	56700	70700	93950	123700	135700	161700

DEFICIT IN GENERATING CAPACITY - CENTRAL ITALY

1 September 1944 - 28 February 1945

	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
	KW.	KW.	KW.	KW.	KW.	KW.

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5. SUMMARY.

	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
	KW.	KW.	KW.	KW.	KW.	KW.
(a) Present capacity	53700	53700	53700	53700	53700	53700
(b) Capacity of Repaired plant	3000	8000	15000	19000	21000	57000
(c) Capacity due to increase in Stream flow	--	9000	18000	25000	30000	20000
(d) Capacity due to moving of Plants	--	--	7250	26000	31000	31000
TOTAL effective capacity	56700	70700	93950	123700	135700	161700

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DEFICIT IN GENERATING CAPACITY - CENTRAL ITALY

1 September 1944 - 28 February 1945

	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
	KW.	KW.	KW.	KW.	KW.	KW.
Essential Military and Civilian needs Generating Capacity in Kilowatts.	85500	101000	141500	154000	188000	235000
Estimated Available Generating Capacity Kilowatts	56700	70700	93900	123700	135700	161700
Deficit Kilowatts	28800	31300	47600	20300	52300	73300

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ITEM (c) OF AGENDA

To consider a proposal for restoration of electricity supplies.

Minute.

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 ~~concurs in the recommendation made by A.C.C. for the importation from the U.S. of two 30,000 KW floating Electrical generating plants~~ for use in this Theater of Operations, ~~and strongly urges that prompt action be taken and that the A.C.C. requisition for this plant be given a high military priority.~~

X recommends that steps be taken for the early importation of 60,000 KW of electrical generating plants for the Director of Communications

& for the reasons set forth in the memorandum that floating power plants, if available, should be provided.

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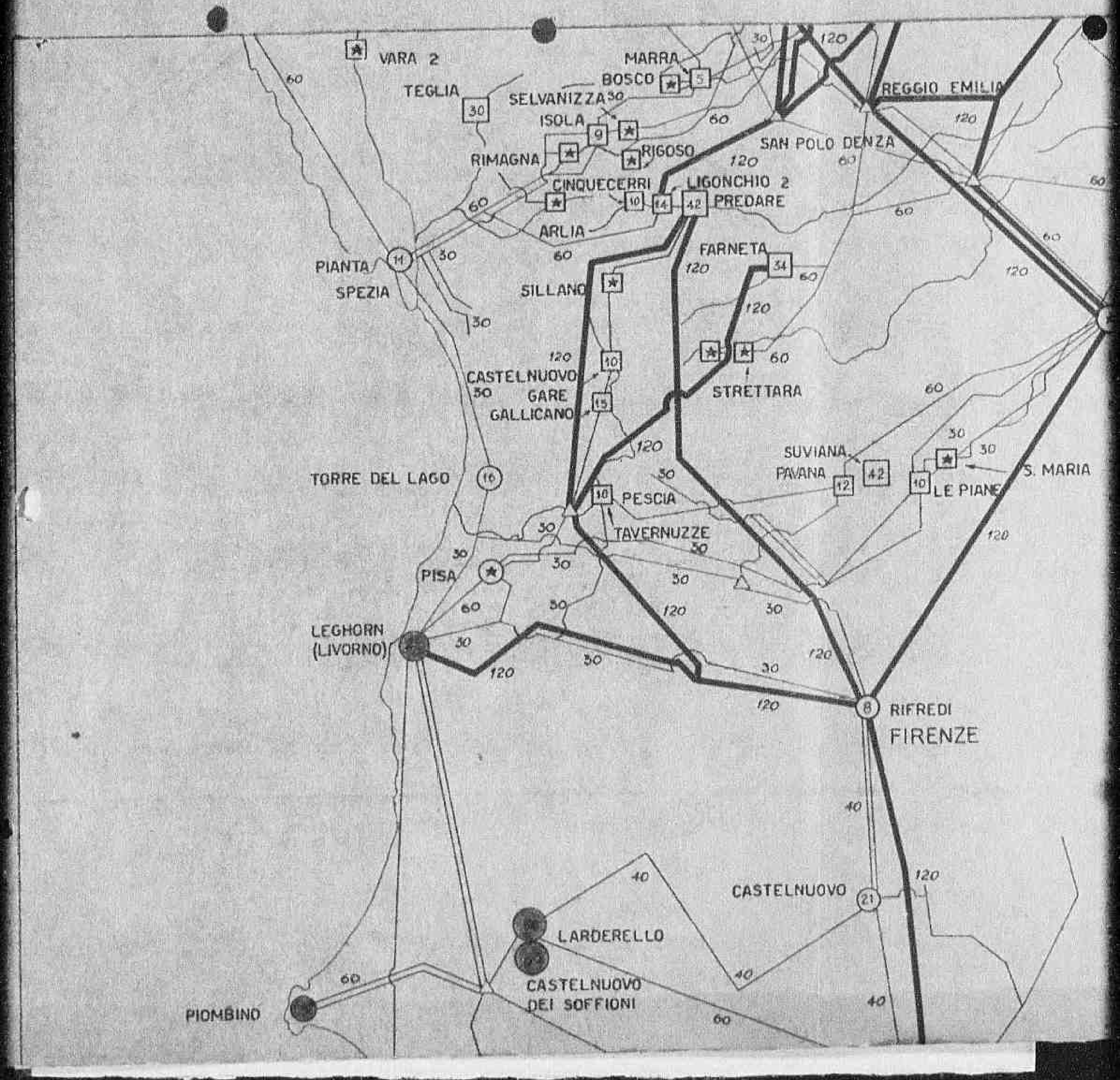

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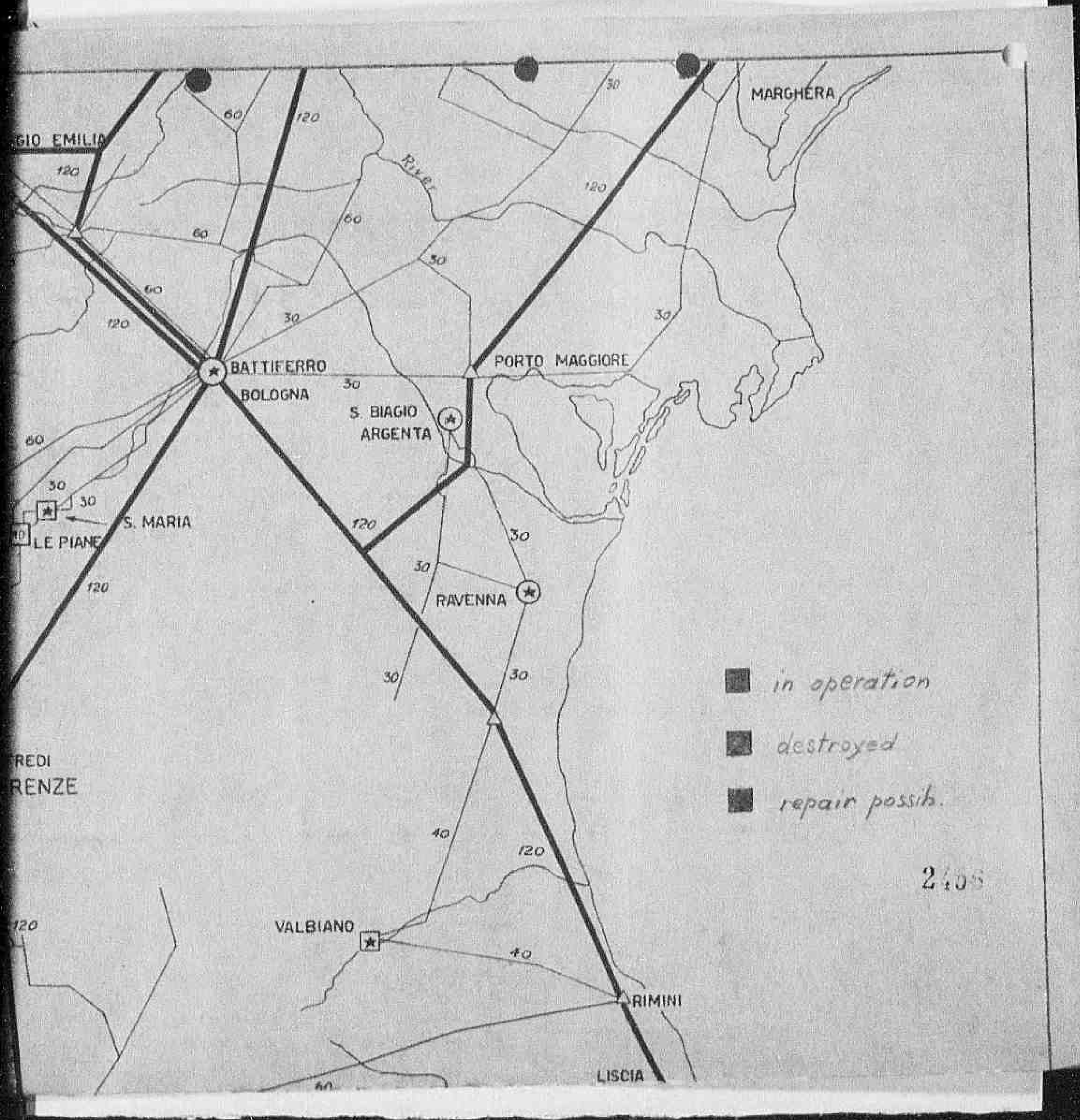

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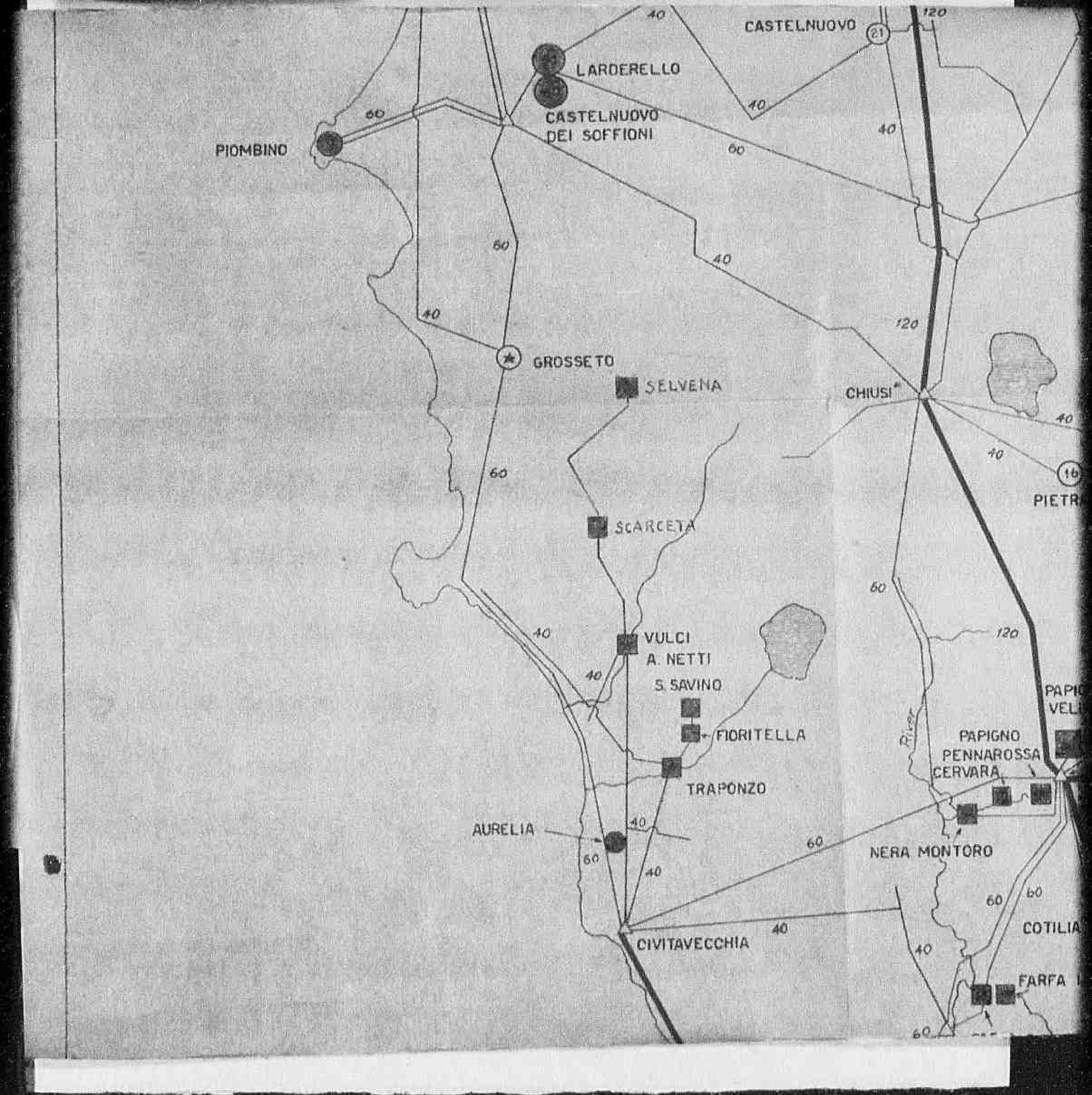

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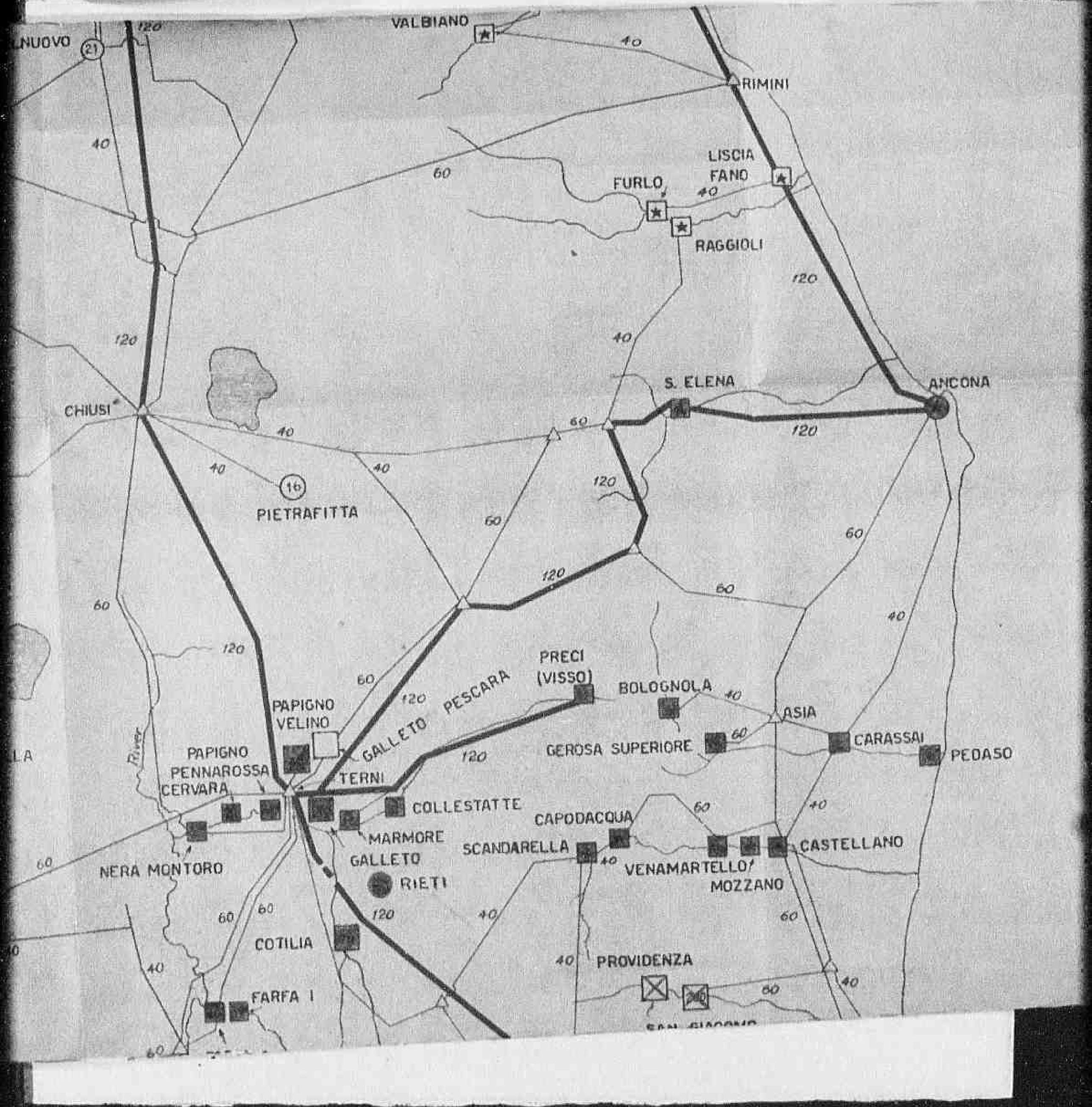

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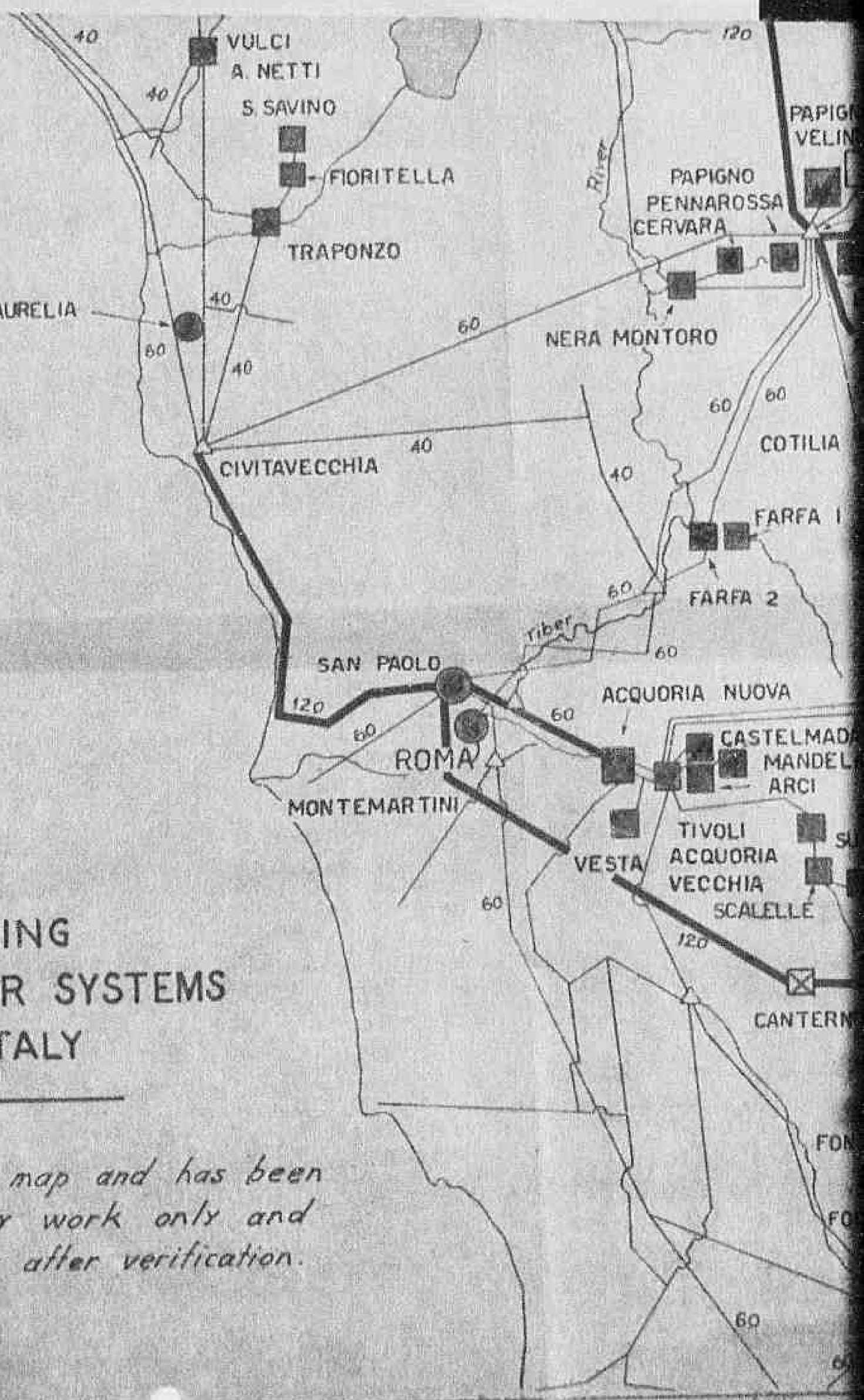

MAP SHOWING ELECTRIC POWER SYSTEMS CENTRAL ITALY

Note : This is not an official map and has been prepared for preliminary work only and is subject to corrections after verification.

Date, 24-7-1944

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VULCI
A. NETTI
S. SAVINO
FIORITELLA
TRAPONZO
CIVITAVECCHIA
NERA MONTORO
PAPIGNO
PENNAROSSA
CERVARA
PAPIGNO
VELINO
GALLETO
TERNI
COLLESTATTE
MARMORE
GALLETO
RIETI
COTILIA
FARFA 1
FARFA 2
PESCARA
PRECI
(VISSO)
BOLOGNOLA
GEROSA SUPERIORE
ASIA
CARASSAI
CAPODACQUA
SCANDARELLA
VENAMARTELLO/
MOZZANO
CASTELLANO
PROVIDENZA
SAN GIACOMO
FARINDOLA
PESCARA
SAN PAOLO
ROMA
MONTEMARTINI
ACQUORIA NUOVA
CASTELMADAMA
MANDELA
ARCI
VESTA
TIVOLI
ACQUORIA
VECCHIA
SUBIACO
SCALELLE
COMUNACQUA
PESCARA 2
PESCARA 3
PESCARA 1
CANTERNO
MORINO
SUL LIRI
ANVERSA PRINCIPALE
FONTANA LIRI
FONTECUPA
CEPRANO
PONTE FIUME
AVENTINO
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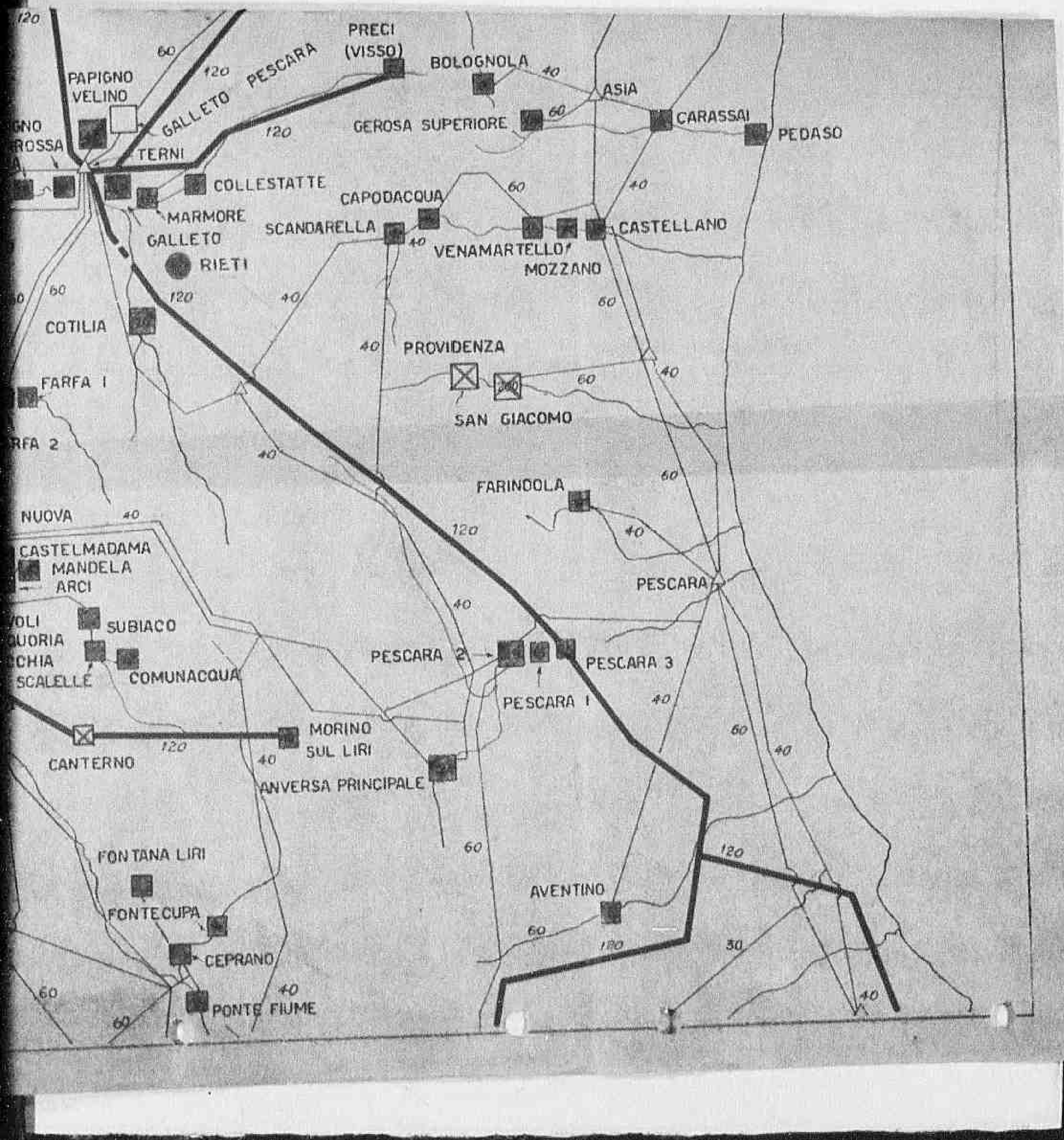
Declassified E.O. 12356 Section 3.3/NND No. 785019



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

PW+Y

19 JUL Recd
051 CEB.

Loan letter
for 2/Lt. Lygoe

REF: CEB/13/1

A.A.I.
CENTRAL ELECTRICAL BOARD
HQ AAI CMF

18 July 1944.

SUBJECT:- Seventh Meeting of AAI Central Electrical Board

TO:- CE HQ AAI, Maj-Gen. N.A. COXWELL HUGHES, CBE, DSO.
CO HBS, (Attention Col. D.S. BURNS - CE)
DE HQ AAI (Att. Lt-Col. W.A.R. SMITH RE)
HQ ACC.. (Att. Lt-Co. W.M. LAPPIN) —
FLAG OFFICER, WESTERN ITALY, Please arrange for representative to attend.

COPY TO:- CAO HQ AAI CMF.

1. The seventh meeting of the AAI Central Electrical Board will be at 1400 hrs on Friday, 21 July 1944, at the offices of the Board on the third floor of the Societa Romana di Elettricita, 14 Via Poli, ROME.

2. The following agenda will be considered:-

(a) Minutes of previous meeting.

(b) Reports from members of the Board on the progress of work previously allotted.

(c) Allotment of tasks listed in memorandum, "Power Supply - CENTRAL ITALY" ref: CEB/13/10 dated 12 July 1944, and memorandum, "Rehabilitation of Electric Power Transmission System - CENTRAL ITALY" ref: CEB/13/10 dated 14 July 1944.

(d) Discussion of steam and diesel and electric plant operation, ROME, reference memorandum, "Diesel & Steam Electric Power Production - CENTRAL ITALY" ref: CEB/13/10 dated 12 July 1944.

(e) Such other matters as may be presented by members of the Board.

James P. Chowdon

JAMES P. CHOWDON,
COLONEL CE,
Vice Chairman, AAI - C.E.B.

19 Jul
11

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

15 JUL Read

COB.052.

A.A.I.
CENTRAL ELECTRICAL BOARD
HQ AAI CMF

REF: CEB/16/5

12 July 1944.

TO:- AMG/ACC, SICILY.
AMG/ACC, SARDINIA.

1. The bearer of this letter, Ing. Alfonso MEDICA, Identity Card No 64/2400, Chief of Power Production, G.E.C. Coy, Sicily, has been instructed by the AAI Central Electrical Board to proceed from Sicily to Sardinia to inspect steam power generating equipment in Sardinia and to report to the AAI Central Electrical Board the feasibility of transferring a turbine electric generator from Sardinia to Sicily.

2. You are requested to do everything requisite to facilitate the journey of Ing. Medica from Sicily to Sardinia and return, and furnish such other assistance as may be required.

JAMES P. GORDON,
COLONEL CE,
Vice Chairman, AAI - C.E.B.

COPY TO:- Lt-Col. W.H.LAFFER, PWAU Sub-Comm., ACC.

Lt Col Rapson rec'd
Dr. J. 15/7
2:30

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

A.A.I.
CENTRAL ELECTRICAL BOARD
APO 400

REF: CEB/18/1/2

22 June 1944

SUBJECT:- Allocation of L.C.T. Diesel-Generator Plant.

TO:- Flag Officer, Western Italy, NAPLES.

1. Complying with your request of 10 June 44, theAAI Central Electrical Board has allocated the L.C.T. recently equipped with diesel-generator plant, to the Royal Navy to be used for the early embellishment of essential electrical services in newly occupied ports.

2. This allocation is made on the understanding that should the Military Services urgently require the use of this diesel electric L.C.T., it will be returned to the control of the AAI Central Electrical Board.

3. CE 3 District has agreed to loan the operating personnel now on this L.C.T. to theRoyal Navy for its operation, for a period not exceeding one month.

4. The L.C.T. above referred to is immediately available.

JAMES P. GRAHAM,
COLONEL CE,
Vice Chairman, AAI - C.E.B.

COPY TO:-

CE HQ AAI
DE HQ AAI (Lt-Col.W.A.R.SMITH RE)
CO PBS (Colonel D.S. BURNS)
HQ ACC (Lt-Col. W.H.LAWTER)
CE 3 District
Supt Elect Engineer, R.N.
Lt-Col.G.COOLEY, for information.

2453

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

A.A.I.
CENTRAL ELECTRICAL BOARD
APO 400

REF. CEB/3/1

12 June 44

SUBJECT:- Utilization of Power Transmission Lines

TO:- Societa Meridionale di Elettricita, , Naples.

1. We would refer you to our letter, CEB/3/1 dated 11 May 44.

2. The Central Electrical Board has been informed that the transmission line, PIEDMONTE - CARIGLIANO section of the FRATTAMAGGIORE LINE double circuit 60 KV line, has been cleared of telephone circuits and is no longer required for that purpose.

3. You are therefore instructed to energise the above mentioned line so far as it has been repaired.

JAMES P. CROWDEN,
COLONEL CE,
Vice Chairman, AAI - C.E.B.

COPY TO:-
DW HQ AAI
CC PBS (Engineer Seat)
HQ ACC (Att. Lt-Col.W.M.LAPTHR)
CSO HQ 5th Army, APO 464 (US Army)

2452

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

Station	Location	No of Boilers	Steam Pressure Atmospheres	Steam Temperature Degrees C	Each Boiler Surface Sq Metres	Turbine KWS	Generator KVAs	Volts	Phase	Frequency	Date Oper
Porto Empedocle	Sicily	2	37	425	425	2 x 5,000	2 x 7,500	10,000	3	50	19
Cagliari	Sardinia	5 2 2	13 30 30	350 375 375	250 500 650	1 x 3,000 1 x 6,000 1 x 10,000	1 x 3,750 1 x 7,500 1 x11,500	5,000	3	50	19
Portovesmo	Sardinia (Portoscuro)	4	13	350	250	1 x 3,000	1 x 3,750	5,000	3	50	19
San Caterina	Sardinia	4	40	420	422	2 x12,500 1 x 8,800 1 x 1,500	2 x12,500 1 x11,000 1 x 1,900	5,000	3	50	19

2457

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

Steam Pressure Atmospheres	Steam Temperature Degrees C	Each Boiler Surface Sq Metres	Turbine KWS	Generator KVAs	Volts	Phase	Frequency	Date in Operation	Reference
37	425	425	2 x 5,000	2 x 7,500	10,000	3	50	1931	CR 436
19 30 30	350 375 375	250 500 650	1 x 3,000 1 x 6,000 1 x 10,000	1 x 3,750 1 x 7,500 1 x11,500	5,000	3	50	1925	CR 436
13	350	250	1 x 3,000	1 x 3,750	5,000	3	50	1916	CR 436
0	420	422	2 x12,500 1 x 8,000 1 x 1,500	2 x12,500 1 x11,000 1 x 1,900	5,000	3	50	1939	"La Centrale Termica di S. Caterina". Publication by Societa Editrice Riviste Elettriche. 1939.

2572

SUBJECT:- Central Electrical Board Procedure

50 WAY Head
Headquarters,
A. A. I.

2/30/3/25

060
RCW

29 May, 1944.

The Vice Chairman,
C.E.B.

The following instructions are issued with a view to standardising the procedure of the Board.

1. The prior approval of the Chairman is necessary before a meeting of the Board is called.

2. A copy of the Agenda for the meeting will be sent to all members so as to reach them not less than 48 hours before the time fixed for the meeting. This is essential to enable members to ascertain the extent to which the agencies they represent can be committed to new projects.

3. Minutes of all meetings will be approved by the Chairman and issued to members as promptly as possible.

4. The allocation of work will be dealt with as follows :

(a) On receipt of the minutes, members are expected to initiate executive action through Staff & Command channels without any further action by the Board, informing the Board of any difficulties.

(b) To enable the board's intentions to be transmitted in detail, the Vice Chairman will send to members of the Board concerned, a technical directive in sufficient detail to enable engineer instructions to be prepared. These will be addressed to Heads of Services represented on the Board who will form the basis of their action through Engineer channels.

Major General,
Chief Engineer.

Copy to: D. Ops, A.A.I.
The Engineer, N.E.A.
Dy, A.C.I. Public Works and Utilities Sub Commission.

(For Lt-Col J.W. M. Lapper)

/mgr

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

members so as to reach them not less than 48 hours before the time fixed for the meeting. This is essential to enable members to ascertain the extent to which the agencies they represent can be committed to new projects.

3. Minutes of all meetings will be approved by the Chairman and issued to members as promptly as possible.

4. The allocation of work will be dealt with as follows :

(a) On receipt of the minutes, members are expected to initiate executive action through staff or Corps and Channels without any further action by the Board, informing the Board of any difficulties.

(b) To enable the Board's intentions to be transmitted in detail, the Vice Chairman will send to members of the Board concerned, a technical directive in sufficient detail to enable engineer instructions to be prepared. These will be addressed to Heads of Services represented on the Board and will form the basis of their action through Engineer channels.

Major General,
Chief Engineer.

Copy to: D. War. A.A.I.
The Engineer, N.Z.A.
Sy, C.P.D. Public Works and Utilities
Sub Commission.

(For Lt-Col W. M. Lapper)

/wsr

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

C-C-P-I

MAIN ALLIED ARMIES IN ITALY,
C.M.F.

051/Rab

2151/92

22 Jul 44.

A.F.H.Q.,
C.M.F.

Central Electrical Board

With reference to your CAO/701 of 1 Jul. As a result of discussions held since with C.A.C. and the Acting Chief Commissioner, A.C.C., it has been decided to recommend the abolition of the present Central Electrical Board. In its place it is proposed to set up a Committee of which the Chairman will be Chief Engineer, A.A.I., the Vice Chairman and permanent Secretariat being found from the ~~Electrical Sub-Commission~~ A.C.C. A draft for bringing the above into effect is attached, and it would be appreciated if you would give your approval to this as soon as possible when it will be issued by this HQ and AFHQ Adv. Adm. Echelon Administrative Instruction No. 27 of 3 Feb 44 will be cancelled.

/S/ B.H. ROBERTSON
Major-General,
Chief Administrative Officer.
for Commander in Chief

Copy to Acting Chief Commissioner, A.C.C.
Chief Engineer, HQ A.A.I.

DRAFT

1. The Central Electrical Board, ITALY, is dissolved. It will be replaced by a committee which will be known as "The Electrical Reconstruction Committee, ITALY".

2. The composition of this Committee will be as follows:-

Chairman	-	Chief Engineer, A.A.I.
Vice Chairman	-	Chief Electrical Engineer, A.C.C.
Members	-	one representative each from Royal Navy, Directorate of Works, A.A.I., F.B.S., A.C.C.

2449

The committee may call upon representatives of Armies and Districts to attend meetings when required.

3. The functions of the Committee will be:-

(a) To consider and approve projects for the rehabilitation of electricity supplies throughout ITALY, SICILY and SARDINIA.

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

to this as soon as possible when it will be issued by this HQ and AHQ Adv. Adm. Echelon Administrative Instruction No. 27 of 8 Feb 44 will be cancelled.

/S/ B.H. ROBERTSON
Major-General,
Chief Administrative Officer.
for Commander in Chief

Copy to Acting Chief Commissioner, A.C.C.
Chief Engineer, HQ A.A.I.

DRAFT

1. The Central Electrical Board, ITALY, is dissolved. It will be replaced by a committee which will be known as "The Electrical Reconstruction Committee, ITALY".

2. The composition of this Committee will be as follows:-

Chairman	-	Chief Engineer, A.A.I.
Vice Chairman	-	Chief Electrical Engineer, A.C.C.
Members	-	one representative each from Royal Navy, Directorate of Works, A.A.I., F.B.S., A.C.C.

The committee may call upon representatives of Armies and Districts to attend meetings when required.

3. The functions of the Committee will be:-

(a) To consider and approve projects for the rehabilitation of electricity supplies throughout ITALY, SICILY and SARDINIA.

(b) To co-ordinate the work of the Military and civil agencies in the reconstruction of the electric power system.

4. Orders to implement plans agreed by the Committee will be issued through normal Staff Channels in respect of work for which Armies or Districts are to be responsible. Orders to civil electric Power Companies will be issued by A.C.C.

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

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

ENGINEER SERVICE
PENINSULAR BASE SECTION
A. P. O. 782

CC/rhf

28 May 1944

MEMORANDUM:

SUBJECT : Restoration of E.A.V. 60 line at Capodichino.

1. Early in December 1943 the Air Force removed some towers from the E.A.V. (Volturno) double circuit 60 Kv line at Capodichino to permit extending a runway.

2. A verbal request was recently made on the Area Engineer, XII AFSC for obtaining a relocation for the line and for assistance in restoring the line.

3. The Area Engineer submitted the attached plan which shows the previous location of the line as well as a proposed new location requiring the construction of approximately 15000' of new line. A plan and profile is now being prepared.

4. It will be necessary to carry out the construction this 15000' of 60 Kv circuit in order to tie the Fratta-Sinturno-Rome 60 Kv line to the 60 Kv line at Capuano Station. (It is understood that E.A.E. is providing the necessary 60 Kv connection between Capuano Steam Station and Volturno Diesel Station.)

5. The Area Engineer indicated verbally that they were not equipped to carry out the construction of this line but that they would probably assist with such facilities as they might have available.

6. It is proposed that this section be constructed as a single circuit line and that the job be allocated to E.A.V. assisted by the Air Force.

C. COOLEY,
Lt. Colonel, Corps of Engineers,
Construction Branch.

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

ENGINEER SERVICE
PENINSULAR BASE SECTION
A. P. O. 782

GC/rhf

29 May 1944

MEMORANDUM:

SUBJECT : Power Supply to Rome.

1. Memorandum for Electric Power Committee on Power Supply to Rome, dated 1 February 1944 by Colonel Crowden, stated that between 5000 and 7000 Kw could be delivered at 9Kv at Rome over the 60 Kv transmission line Naples - Minturno - Rome (Penestina) now being rehabilitated by PBS.

2. A study of available equipment has disclosed that a 9 Kv step voltage regulator, 6.7 percent buck and boost, can be obtained from Arenella Substation. This has a current carrying capacity equivalent to 10,000 Kva. It is not required at Arenella Substation since this substation operates in parallel with Poggioreale and Agnano Substations which are not provided with regulators.

3. It is proposed to:

a. Install this step voltage regulator at Rome together with a 10,000 Kva outdoor type transformer from Agnano Substation which has an available tap ratios of 60.25/58.5/56.85 - 9.95/9.66/9.35 Kv unless a suitable transformer is found in serviceable condition at Rome. (Approximately 100,000 Kva of serviceable 60/9 Kv transformers exist in Naples.)

b. Maintain a minimum system voltage of 58000 volts at Naples during maximum load periods by operating Capuano tied to the system for power factor correction and/or carrying load. This system voltage is necessary to maintain 9000 volts in Naples.

4. Under this arrangement a load of 10,000 Kw at 0.90 power factor can be delivered to the distribution system at Rome at 8400 volts (which is the nominal voltage of that system). The overall voltage variation on the 8400 volt bus at Rome will not exceed 7%. (The average daily variation in Naples on the 9 Kv busses is approximately 12%.)

G. COOLEY,
Lt. Colonel, Corps of Engineers,
Construction Branch.

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

28 MAY

A.A.I.
CENTRAL ELECTRICAL BOARD
APO 400

REF: CEB/13/1

27 May 1944

SUBJECT:- Sixth Meeting of AAI Central Electrical Board.

TO:- CE HQ AAI, Maj-Gen. N.A. CONNELL ROGERS, CBE,DSO,
CG PBS (Attention Col. D.S. BURNS - CE)
DW HQ AAI (Attention Lt-Col. W.A.M. SMITH RE)
CO ACC (Attention Lt-Col. W.M. LAPPER) -
Comdr. L.E. HOGGAN, RN, Supt Elect Engineer, RN. Will you please arrange to attend.

COPY TO:- CAO HQ AAI.

1. The sixth meeting of the AAI Central Electrical Board will be at 0900 hours on Tuesday, 30 May 1944, at the office of the Board on the 3rd floor of the SME building, Via P.E. PERUANI, NAPLES.

2. The agenda is as follows:-

(a) The provision of trucks and miscellaneous material to the operation of the SME power system.

(b) The testing of insulators on certain transmission lines of the SME.

(c) The rehabilitation of the LNTE hydro electric power plant.

(d) Repair of the No 2 unit now being removed from the CALORE hydro electric plant.

(e) Such other matters as may be presented by members of the Board.

James P. Crondon

JAMES P. CROMDON,
COLONEL CE,
Vice Chairman, AAI - C.E.B.

2446

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

A.A.I.
CENTRAL ELECTRICAL BOARD
APO 400

REF: CEB/20/2

27 May 1944

SUBJECT:- Provision of trucks and miscellaneous material for the operation of the SAE power system.

TO:- CE HQ AAI Maj-Gen. W.A. COCKELL ROGERS, CBE DSO.
CO FEE (Attention Col. D.S. BURNS - O.E.)
DE HQ AAI (Attention Lt-Col. W.A.R. SMITH RE)
HQ ACE (Attention Lt-Col. W.E. LAPPER)
Comdr. L.E. HOGGAN, RN.

1. The operation of an electric power transmission system requires provision for finding and repairing faults to the transmission lines. These faults arise from a variety of causes in places which cannot be predetermined. To discover and repair transmission line faults, repair crews are stationed at various strategic points on the system. To carry out the repairs promptly and reduce the time during which the electric power service is interrupted, these crews must have transportation to take them and the material required for repair, to the site of the fault.

2. Practically all of the transport which the SAE originally used for this purpose was destroyed or confiscated. They have been able to acquire some very old vehicles which are entirely inadequate because of their slow speeds, frequent breakdowns and the lack of spare parts. To handle this work satisfactorily, the following transport and tyres are urgently required :-

2 No 1-ton trucks; 4 No 1½-ton trucks; 3 No 3-ton trucks.

67	No.	tyre covers, size	600 x 16
81	"	tubes, "	" "
5	"	covers "	650 x 16
5	"	tubes "	" "
9	"	covers "	750 x 20
10	"	tubes "	" "
2	"	covers "	1200 x 20
3	"	tubes "	" "

3. These trucks and tyres are urgently required to prevent serious interruption to the power supply which would interfere with production for military purposes.

JAMES P. GROWDON,
COLONEL CE,
Vice Chairman, AAI - C.E.B.

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

A.A.I.
GENERAL ELECTRICAL BOARD
APO 400

REF: CEB/20/2

27 May 1944

SUBJECT:- The Testing of Insulators on Certain Transmission Lines of the SME.

TO:- CE HQ AAI, Maj-Gen M.A. CORNELL ROGERS, CBE DSO.
CC ISS (Attention Col. D.S. BURNS - CE)
CW HQ AAI (Attention Lt-Col. E.A.H. SMITH RE)
HQ AOC (Attention Lt-Col. W.M. LAWTER)
Comdr. L.E. HOGGAN, RN.

1. The principal transmission lines of the SME electric power transmission system are insulated by suspension insulators, the number of units corresponding to the voltage on which the line is operating. These suspension insulator units fail electrically at intervals. One unit in a suspension string may fail without causing a fault in the transmission line, but when two or more units fail such a fault is unavoidable. It is the practice of the SME to test the insulators on the transmission lines to find and remove the faulty insulators before the transmission line fails. By so doing, the number of power failures is greatly reduced.

2. It is proposed to test the units on the 150 KV SILA - FOGGIA line and on both 60 KV TUSCIANO - FRATTA - POGGIO REALE - AGNANO during the coming summer.

3. This will require the use of 3 small trucks, capacity ¼ - 1½ tons for a period of approximately four months. The SME have the necessary equipment and trained crews.

James P. Gordon

JAMES P. GORDON,
COLONEL CE,
Vice Chairman, AAI - G.E.B.

2441

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

A.A.I.
CENTRAL ELECTRICAL BOARD
AFO 408

REF: CEB/1/2

27 May 1944

SUBJECT:- Rehabilitation of the LETE Hydro Electric Power Plant

TO:- CE HQ AAI, Maj-Gen. N.A. CONNELL ROGERS, CBE DSO,
CO FBC (Attention Col. D.S. BURNS - CE)
DE HQ AAI (Attention Lt-Col. W.A.R.SMITH RE)
CC AOC (Attention Lt-Col. W.H. LAPPER)
Comdr. L.E. HOGBAN, RN.

1. The LETE hydro electric plant is situated about 20 km west of the MATESE hydro electric plant. It operates under a maximum static head of 577 M. and is supplied from a small reservoir which provides for weekly storage. The original installation consisted of 4 hydro electric generating units having a combined capacity of 8000 KW. It produced from 25 - 35,000,000 KWH per year, which was transmitted to the NAPLES area over the LETE - MATESE and PRATA MAGGIORE transmission lines.

2. The power station and generating equipment have been completely destroyed by mines. The reservoir intake and pipeline are undamaged. The transmission lines LETE - MATESE - PRATA MAGGIORE are in operation or under repair.

3. It is feasible to move the second unit from MATESE I plant and install it at LETE, somewhat above the destroyed LETE power house. When so installed this unit should have a capacity of not less than 6000 KW always available for peak loads and would produce approximately 25,000,000 KWH per year.

4. All of the equipment required is available. The work can be done largely by Italian civilians under the direction of and with the assistance of an Army unit. The Army unit would be required to supply some transport, equipment, and food and miscellaneous supplies.

5. It is believed that the unit could be installed ready for operation within a period of four months, which would make it available for carrying the increased winter loads.

James P. Grondon

JAMES P. GRONDON,
COLONEL GE,
Vice Chairman, AAI - C.E.B.

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

A.A.I.
CENTRAL ELECTRICAL BOARD
APO 400

REF: CEB/1/2

27 May 44

SUBJECT:- Repair of the No 2 Unit now Being Removed from the CALORE Hydro Electric Plant.

TO:- CE HQ AAI, Maj-Gen. N.A. OCKWELL ROGERS, CBE DSO,
CO HDS (Attention Col. D.S. ROGERS - CE)
DE HQ AAI (Attention Lt-Col. W.A.R. SMITH RE)
HQ ACC (Attention Lt-Col. W.M. LAPTEW)
Comdr. L.E. MOGGAN, RN.

1. No 3 District has been allotted the task of removing the No 2 hydro electric unit from the CALORE plant and transporting it to NAPLES for repair. It is proposed to instal this unit at a suitable site North of ROME, where its output would be most useful either for supplying additional power to ROME or for transmission to the area north of ROME.

2. This unit has been damaged by mines and will require extensive repairs, which can be made in NAPLES. These repairs should be undertaken as promptly as possible so that the unit will be ready for installation when the site has been taken by the Allied Armies.

JAMES P. GROWDON,
COLONEL CE,
Vice Chairman, AAI - C.E.B.

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BEST COPY POSSIBLE

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461015
5479
26 MAY XXX
120
Rev.

AGO MAIN (RESTRICTION DIVISION) 25 MAY 1944

RESTRICTED

TO

MARTIN

REPORT

ESSENTIAL BUILDING RESTRICTIONS TO RESIDENCE CAN BE RESTRICTED TO SIX WEEKS ON EIGHT WEEKS ON EIGHT STOP AND EIGHT NIGHT FOR ONE HOUR NON PERSONS DAILY DELIVERY AND REFRACTORY CAN BE MADE ONE FOR FIVE NON PERSONS DAILY DELIVERY PAPER TO APPLY FOR USE FOR DEFENSE OVER ARE FULL AND ADD REMAND REASONABLE PAPER CERTIFIED ORDERLY SIGNS OF POWER FOR TOILET USE AND CIVILIAN REQUIREMENTS IS DESIGNATE TOWN WHEN SUBJECT OF THESE MATERIALS TO ACTION REQUEST POSITION

Col Ralph

Col Ralph

2411

Public Roads & Utilities Subcom.

RESTRICTED

LAURIE T. MERCER, JR.,
1st Lt, AGD,
Adjutant.

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

COPY

Subject : Central Electrical Board

HQ AAI,
CMF

2131/Q2

15 Aug. 44

Vice Chairman;
Central Electrical Board

1. It has been decided to dissolve the AAI Central Electrical Board and the appropriate instructions are in the process of being issued. In view of the factthat there may be some delay and that in the meantime, it is desirable to avoid duplication, you are hereby instructed to move from your present location in Via Poli, ROME, to the 8th Floor of HQ ACC Buildings, ROME, where arrangements have been made for your accomodation. You should contact the Chief Electrical Engineer, Public Works and Utilities Sub-Commission, ACC, on arrival and arrange for him to have full access to your records, etc.

2. You should ensure that all concerned are notified in advance of your change of location.

(signed)

Col. Logan, for 2/4/0
Major-General,
Chief Administrative Officer.

cc : Public Works & Utitlities Sub-Commission, ACC
CE, AAI

Legal Resources Section.

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

2/6/45

Memorandum

The Electric Power Rehabilitation Committee was dissolved and its functions transferred to Allied Commission in accordance with A.F.N.O Adm. Memorandum No 32 dated 30 May 45

See Folio 74 File No 871

H.H. Lang Lieut major
Secretary
Commission.

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

of Military Priority

TS IN TOSCANA REGION

Tuscany Region

	Completed during Month	Cost (Lire)	In ~~Operation~~ during Month	Cost (Lire)
of Military Priority				
	1	7,500,000	14	24,761,000
3,900	3	4,210,000	17	36,553,600
900	4	11,710,000	31	61,314,600

of Military ~~Requiring AC/ANG Approval~~ Priority but for which Acceptance of AC/ANG was required.

1,420	2	166,630	6	1,280,420
1,775	1	45,000	11	3,759,588
1,200	7,	1,921,000	19	9,586,900
95,000	3	950,927	40	23,356,000
1,829	4	1,382,927	22	5,477,954
1,222	17	4,466,484	98	43,463,066

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

2 copies

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

PWU/CSL/PWU

30 May 1944.

SUBJECT: Trucks for Electricity Companies.
TO : Lt. Col. Caynes.

1. A meeting of the Central Electrical Board was held this morning and the question of provision of trucks for the electrical companies was discussed.

2. Major General Cowell-Rogers, the Chairman, requested that A.C.C. should arrange for the trucks and tyres to be provided to the S.M.E. Company.

3. I informed Major General Cowell-Rogers that you had the matter in hand and that it was hoped to supply requisitioned civilian trucks and hand them over to the Company at a very early date. The Board considered this to be a most urgent request and that if they could not be supplied by A.C.C. during the next few weeks, A.A.I. should be informed as the electricity supplies throughout Italy would be jeopardised.

4. With regard to the tyres, I informed the Board that you were arranging to supply a limited number of tyres so as to release existing tyres for re-treading and it was hoped to carry out re-treading work to meet the Company's requirements.

W. M. LUPER,
Lt. Col.,
Chief, Util. & Adm.Div.

file 2.351
227

HQ,
ALLIED ARMIES IN ITALY,
C.M.F.

2131/Q2.

May 44 .

Vice-Chairman,
Central Electrical Board,
A.A.I.

Reference your letter of 14 Apr., 44, the following replies deal with your comments on paragraph 4 of Minutes of the meeting of AFLR(I) Board of 10 Apr., 44.

(a) You are correct in saying that questions regarding the pay and feeding of labour will be handled by the Public Utilities Sub-Commission, A.C.C. If the Central Electrical Board desires to see a change on any matter of policy in connection with labour it should address its requests to the above Sub-Commission. It would not be proper for the Board to issue a "policy direction" to the A.C.C., firstly because it is not in a position to do so, and, secondly, because any such direction would be liable to have an implication in regard to labour generally.

(b) It is correct that the Central Electrical Board should issue instructions regarding the generation of power at the various plants direct to the Electric Power Companies. Copies of all such instructions should be sent to the Public Utilities Sub-Commission, A.C.C.

(c) Since receiving your letter there has been correspondence with the Chief Commissioner, A.C.C., on this point. The situation is not yet entirely clear, and it is felt that you should discuss the matter personally with the Public Utilities Sub-Commission, A.C.C., in order to obtain the final statement, but this must be subject to the following principles:-

(i) In accordance with this HQ Administrative Instruction No.27 dated 8 Feb., 44 paragraph 6(c) and (d), the C.E.B. is correct authority for requesting from the Armed Forces release of supplies. It is the only body on which the Services are represented by fully qualified technical

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

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(i) In accordance with this HQ Administrative Instruction No.27 dated 8 Feb., 44 paragraph 6(c) and (d), the C.E.B. is correct authority for requesting from the Armed Forces release of supplies. It is the only body on which the Services are represented by fully qualified technical representatives. The Services will not recognise a request emanating from any other source.

(ii) Centralisation at the C.E.B. should not be allowed to hamper the settlement of minor matters which can be more conveniently dealt with between the Companies and the regional representatives of the A.C.C.

(iii) All orders for imported material must pass through the C.E.B. This ruling has been given by A.F.H.Q.

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

(d) It was agreed at the meeting that such instructions should be issued to the A.C.C. Should experience prove that this procedure involves unnecessary delay without compensating advantages, A.C.C. will then agree that instructions may pass direct from the Board to the Companies.

(e) The arrangements which you describe in regard to planning should continue, but copies of reports made by the Companies to the C.E.B. should be sent to the Public Utilities Sub Commission, A.C.C.

(Sgd) B.H. ROBERTSON,
Major-General,
Chief Administrative Officer.

Copy to:- HQ., Allied Control Commission.
Local Resources Section.

2438

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

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

REF: CEB/13/1

A.A.I.
CENTRAL ELECTRICAL BOARD
APO 400

2 May 1944

SUBJECT:- Fifth Meeting of AAI Central Electrical Board

TO:- CE HQ AAI, Maj.Gen. N.A. COXWELL ROGERS, CBE DSO.
CG PRS (Attention Col. D.S. BURNS - CE)
DIW HQ AAI (Attention Lt-Col.W.A.R.SMITH RE)
C.C., ACC, (Attention Lt-Col.W.M. LAFFER)

COPY TO:- CAO HQ AAI

1. The fifth meeting of the AAI Central Electrical Board will be at 1600 hrs on Wednesday, 3 May 1944, at the office of the Board on the 3rd floor of the SME building, Via F.E. IMPERIANI, NAPLES.

2. The agenda is as follows :-

(a) Rehabilitation of the MATESE No 2 Plant

(b) Rehabilitation of the MATESE - LETE transmission line

(c) REHABILITATION of the Green MATESE - FRATTA transmission line and salvage of conductors from the Red and White MATESE - FRATTA line

(d) Rehabilitation of the CALORE - TUSCIANO transmission line

(e) Rehabilitation of the second circuit 30 KV TARANTO - TUSCIANO transmission line

(f) Rehabilitation of the second circuit 30 KV TUSCIANO - TORRE transmission line

(g) Such other matters as may be presented by members of the Board.

JAMES P. GORDON,
COLONEL, GS,
Vice Chairman, AAI - C.E.B.

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

03 MAY need 117 hrs

A.A.I.
CENTRAL ELECTRICAL BOARD
APO 400

REF: CEB/13/1

2 May 1944

SUBJECT:- Fifth Meeting of AAI Central Electrical Board

TO:- CE HQ AAI, Maj.Gen. N.A. COXHELL ROGERS, CBE DSO,
CC PRS (Attention Col. D.S. BURNS - CE)
DDW GQ AAI (Attention Lt-Col.W.A.R.SMITH RE)
C.C., ACC, (Attention Lt-Col.W.M.LAPPER)

COPY TO:- CAO HQ AAI.

1. The fifth meeting of theAAI Central Electrical Board will be at 1600 hrs on Wednesday, 3 May 1944, at the office of the Board on the 3rd floor of the SME building, Via P.E. DEPRIANI, NAPLES.

2. The agenda is as follows:-

(a) Rehabilitation of the MATESE No 2 Plant

(b) Rehabilitation of the MATESE - LATE transmission line

(c) Rehabilitation of the Green MATESE - FRATTA transmission line and salvage of conductors from theRed and White MATESE - FRATTA line.

(d) Rehabilitation of the CALORE - TUSCIANO transmission line.

(e) Rehabilitation of the second circuit 30 KV TANAGRO - TUSCIANO transmission line

(f) Rehabilitation of the second circuit 30 KV TUSCIANO - TORRE transmission line

(g) Such other matters as may be presented by members of the Board.

James P. Chowdon

JAMES P. CHOWDON,
COLONEL CE,
Vice Chairman, AAI - C.E.B.

243

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

A.A.I.
CENTRAL ELECTRICAL BOARD
APO 400

REF: CEB/13/1

12 April 1944

SUBJECT:- Fourth Meeting of AAI Central Electrical Board.

TO:- CE HQ AAI, Brig. N.A. COXWELL ROGERS, CBE DSO
CO PBS (Attention of Col. D.S. BURNS - CE)
DDW HQ AAI (Attention Lt-Col W.A.R. SMITH RE)
Chief Commissioner, ACC (Attention Lt-Col W.M. LAPTER)

COPY TO:- CAO HQ AAI (Adm Echelon)

1. The fourth meeting of the Central Electrical Board will be at 0900 hrs on Sunday 16 April 44, at the office of the Board on the 3rd floor of the CME building, Via PAOLO EMILIO IMBRIANI, NAPLES.

2. The following is the agenda to be considered:-

Reinstl. ✓ (a) The availability of power for the months of April and May.

✓ (b) The demand of the DCRRS for 4000 KW for the electrical operation of the railway from BENEVENTO to CASERTA.

(c) To consider the measures to be taken to prevent the continued theft of transmission line conductor.

(d) To consider the rehabilitation of part of the Volturno 60 KV transmission line whose use is not required for the transmission of power to ROME.

(e) Such other matters as may be presented by members of the Board.

James P. Crowdon

JAMES P. CROWDON,
COLONEL CE,
Vice Chairman, AAI - C.E.B.

(e) Any other work directed by CEB in addition
to Line Rests
Contractors Forms Wards.

2433

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

WEL/cw

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

28 Mar 44:

ACC/857/PWU

Subject: Removal of Hydroelectric Generating Unit from Sicily to Italy.

To : Vice Chairman, A.A.I. Central Electrical Board.

1. Reference is made to the minutes of the third meeting of the A.A.I. Central Electrical Board, dated 12 March 44. which were received at this office on 26 March 44.

2. In connection with paragraph 7 of these minutes, relating to the removal of a hydroelectric generating unit from Sicily to Italy, information is requested as to whether it is contemplated that a specific directive will be given to the Allied Control Commission, or whether paragraph 7 is to be construed as the directive to execute this mission.

W.M.LAPPER.
Lieut.Colonel.
Chief, El. & Adm. Div.

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

SECRET

6081

N/5052
HEADQUARTERS PENINSULAR BASE SECTION

SECRET
OPERATIONAL PRIORITY_____ 28 MARCH 1944

TO (ACTION) : CG PENBASE

(INFORMATION) / CG NATOUSA

FROM : CG SOS NATOUSA SIGNED LARKIN_

HE... 28 MAR 1944 A.C.C.

DATE TIME SIGNED: 271924 A
DATE TIME REC'D : 280010 A

REF NR : L-12818

CITE : SSGDS-217 S, SSQMC, SSSIG, SSENG, SSORD_

POWER LINE REHABILITATION NAPLES TO ROME IS SUBJECT AND REFERS TO PENBASE-10254 DATED 5 MARCH AND SOS CABLE L-3901, CITE SSENG 115, DATED 9 MARCH. INFORM ACMF ADMINISTRATIVE ECHELON THAT YOU ARE AUTHORIZED TO UNDERTAKE REHABILITATION OF WEST COAST TRANS MISSION LINES FROM NAPLES TO ROME ONLY UNDER THE FOLLOWING CONDITIONS:

A. WORK TO BE UNDERTAKEN BY YOU TO BE ONLY THAT WHICH YOU CONSIDER A MILITARY NECESSITY_

B. REHABILITATION BEYOND THE SCOPE OF MILITARY NECESSITY AS DETERMINED BY YOU ~~IS~~ IS AN ACC/AMG RESPONSIBILITY IN WHICH YOU DO NOT PARTICIPATE_

2431

C. ACC/AMG TO FURNISH FOOD FOR CIVILIAN LABOR, PAY CIVILIAN WAGES, PAY CONTRACT COSTS AND PURCHASE LOCALLY AVAILABLE MATERIALS.

28 Mar 23

SECRET

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

UPON ACCEPTANCE BY ACMF ADMINISTRATIVE ECHELON OF THE FOREGOING CONDITIONS AND THE SUBMISSION OF A SATISFACTORY PLAN ACCEPTABLE TO YOU FOR THEIR FULFILLMENT YOU ARE AUTHORIZED TO PROCEED WITH THE WORK/ TO ISSUE MINIMUM ESSENTIAL TENTAGE, BEDDING AND HOUSEKEEPING EQUIPMENT REQUIRED FOR USE OF CIVILIAN EMPLOYEES IN THE FIELD. AUTHORIZED FOR ISSUE TO 345 ENGINEER GENERAL SERVICE REGIMENT ARE: 6-SIGNAL CORPS ~~XXX~~ K-43 LINE TRUCKS. 4-MOTORIZED AIR COMPRESSORS. 4-TRUCK MOUNTED OR CRAWLER TYPE CRANES. AS AVAILABLE IN DEPOT STOCKS WITH MISCELLANEOUS SMALL TOOLS AS REQUIRED. ISSUES OF ORDNANCE EQUIPMENT IN EXCESS OF TO/E ARE UNAUTHORIZED. ADDITIONAL REQUIREMENTS WILL BE SUBMITTED TO THIS HEADQUARTERS FOR APPROVAL_
666

ACTION: G-4
INFO : QM
: SIG O
: ENGR O
: ORD O
: HQ ACC
: BPA
: SECT'Y GEN. STAFF
: COMMANDING GENERAL

6 A C C DISTRIBUTION

(INFO)	ECON SECT	3
"	DCC	1
"	TELECOMS & POSTS	1
"	FILE	1
"	FLOAT	1

2430

2540 23

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

ENTE AUTONOMO VOLTURNO

Notes of meeting held at Lt-Col Hensley's office Tuesday 28 Feb 44.

Present:

Lt-Col W.W. Lapper, PW&U, HQ, ACC.
Lt-Col L.J. Hensley, UTC, Region III.
Major Marion V. Fitzgerald, Region III.

Sig Mario de Falco, Managing Director, Volturno Co.
Sig Cremona, Chief Engineer, Volturno Co.

1. The meeting was called by Lt-Col W.W. Lapper in order to investigate the question raised at the Central Electricity Board meeting held on 20 Feb 44 that, owing to inefficient management the Volturno Company should be taken over by the Societa Meridionale di Elettricita.

2. Sig Mario de Falco was informed that we had received compliants that the company was being handled in an inefficient manner and was invited to make a statement on his general management policy and the operation of the Volturno Station.

3. He stated at first that he was not aware of anything being wrong in the company's management but after being pressed he stated that there had been delay in obtaining oil owing to their financial position and he agreed that the matter had not been brought to the notice of the AMG officers in the Region, thus jeopardising the supplies of electricity while the matter was being settled with their bankers.

4. The operation of the Volturno Station was discussed and Sig de Falco assured the meeting that his engineer and staff at the Station did everything possible to carry out Commander Hoggan's instructions. He agreed however that he personally as Managing Director had not made a practice of visiting the station or contacting Commander Hoggan. Regularly in order to see that everything possible was being done to operate and maintain the plant at maximum efficiency. His outlook had been that his station engineer and staff were working under Commander Hoggan's instructions and there was therefore no purpose in his visiting the plant.

5. Sig de Falco was informed that unless he took a more active interest in the management and efficient operation of the Volturno Generating Station serious action would be taken by ACC through its Region III representative.

6. Sig de Falco agreed that he or his Chief Engineer would in the future visit the plant daily and find out if anything required attention and also maintain contact with Lt-Col Hensley in case of difficulty with any matters.

The management and operation of this plant will be closely watched for the future.

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

N 1588

Telecommd Post
Electric Power Division
4998
Lt Col Lafaper

SECRET

HEADQUARTERS PENINSULAR BASE SECTION

10 MARCH 1944

SECRET
PRIORITY
CG PENBASE
NONE
SIGNED LARKIN
092115A
100328A
I-3901
SSENG-195, 6SGFS

HEADQUARTERS
10 MAR 1944
A. C. C.

TRANSMISSION LINE REHABILITATION NAPLES TO ROME PENBASE CABLE 10254 DATED 5 MARCH IS SUBJECT. PROPOSAL FOR ACC/AMG COOPERATION AND OTHER FEATURES PRESENTED TO NATOUSA FOR APPROVAL. WILL ADVISE. CONTINUE PLANNING ALONG LINES PROPOSED BY YOU AND KEEP THIS HEADQUARTERS ADVISED PERIODICALLY AS PLANS DEVELOP. BECAUSE OF DETAIL INVOLVED SUBMIT PLANS BY LETTER INSTEAD OF CABLE. BY PLANS IS MEANT GENERAL SCHEME TO INCLUDE ROUTE, COSTS INCURRED AND ANTICIPATED, DEPOT STOCKS ALLOTTED TROOPS AND LABOR INVOLVED, AND ALLIED ADMINISTRATIVE FEATURES BUT INCLUDE DETAILS OF ENGINEERING

PBS DISTRIBUTION:
Action.....Engr C

Info.....G-4
Secty Gen Staff
Commanding Gen

ACC DISTRIBUTION:

Action.....

Info.....Recon Sec(for Col. Crowdon)
Dep C C
Telegrams and Posts
File
Float

2148

SECRET

18341

10 MARCH 44

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

A.C.M.F.
CENTRAL ELECTRICAL BOARD

10 March 1944

C.Z. - A.C.M.F. - Brig. M.A. Coxwell Rogers - C.B.E., D.S.O.
C.G. P.B.S. - Col. D.S. Burns - C.E.
D.D.W. A.C.M.F. Lt. Col. Smith
Chief Commissioner - A.C.C. - Lt. Col. Lapper.

SUBJECT: Meeting of A.C.M.F. - Central Electrical Board.

1. The third meeting of the Board will be at 0900 hrs on Sunday 12 March 1944 - at the offices of the Board on the 3rd floor S.M.E. Building Via Paolo Emilio Imbriani - Naples.

2. The agenda to be considered is.

a) Report by A.C.C. with respect to the management of the Volturno Company.
b) Report to Electrical Power Committee on the availability of additional power on the 60 kv transmission lines from Sila hydro electric plants.
c) Rehabilitation of 60 kv single circuit transmission line - Matese - Benevento - Calore - Tuciana.
d) Repair of Calore Hydro-electric plant and placing one - 12000 H.P. hydro-electric generating unit in operation. The second unit to be disassembled packed for storage and shipment and transported to Naples for repair.
e) To be noted by Board that all electrical equipment, material and supplies have been frozen and can be requisitioned only after approval by the Board. All equipment, material and supplies of every kind in the possession of the Power Company must be presumed to be used directly or indirectly for power purposes and must not be requestioned without prior approval of the Board.
f) Allocation of the task of disassembly, packing for shipment and shipping from Palermo Sicily to Naples - of one 3500 KW. hydro electric generating unit complete wiht control valves - governor and switch gear. This unit is one of three now installed in Piano del Greci (Alto Belice) hydro electric plant at Palermo Sicily.
g) To give consideration to the need for a 20000 KW/ 30000 KW floating power plant for use in the Italian theatre.
h) To allocate the repair of the third 15000 KW steam turbine generating unit at the Capuana steam plant.
i) Such other matters as may be presented by members of the Board.

2427

JAMES P. GROWDON
Colonel C.E.
Vice Chairman A.C.M.F. - C.E.B.

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

U.S. S E C R E T Equals British M O S T S E C R E T

HQ ACMF (Adm. Echelon)
APO 400

AIH/jra
8 March 1944

SUBJECT: Allocation Electrical Rehabilitation Project.

TO : Commanding General, Penisular Base Section, APO 782, U. S. Army.

1. In conformity with the provisions of radio instructions (Freedom to Flambo - 44768 - Sigs No: 4632 131/Q2) and pursuant to action of the ACMF Central Electrical Board at its meeting on 14 February 1944, the rehabilitation of the electric transmission line from the Capuano Steam Plant in Naples to the Prenestina substation in Rome is allocated to the Commanding General, Penisular Base Section.

2. The double circuit Volturno line from the Doganella plant to the crossing of the S.M.E. Liri line, the double circuit S.M.E. Frattamaggiore line to Minturno and the F.F.S.S. single circuit line from Minturno to Rome are to be repaired and connected to form a single circuit 60 Kv line from the Capuano Steam Plant, Naples, to the Prenestina Substation, Rome.

3. So far as practicable the material required to repair the lines, Capuano to Minturno, is to be obtained by cannibalizing the Volturno line in sections not yet repaired. Similarly material required to repair the F.F.S.S. line, Minturno to Rome, should be procured, so far as practicable, from stock now in possession of the F.F.S.S. and by cannibalizing parts of the S.M.E. 150 Kv. Pescara-Frattamaggiore line. The Minturno-Rome line should be constructed with the same insulation and clearance as the original line.

4. In all rehabilitation work the maximum amount of material from damaged and unnecessary lines should be used. The Central Electrical Board will undertake to locate and provide required materials not under the control of Commanding General, Peninsular Base Section, by salvage and cannibalization of other Italian systems including Sicily and Sardinia. Wherever work is done or materials are salvaged in areas not under control of Commanding General, Peninsular Base Section, the Central Electrical Board will inform the proper area authority and arrange for such assistance from that area authority in providing materials and expediting the work as is practicable.

(over)

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

When new material or equipment is required which becomes a part of the electrical system, the Commanding General, Peninsular Base Section, should consult the Central Electrical Board as to the source of supply. Items required to be issued from British or American military stocks should be procured and authorized in accordance with existing instructions of the respective supply services.

5. Minimum use should be made of Allied military units. Maximum use will be made of Italian commercial firms and civil labor. In connection with payment of services and supplies furnished from Italian resources attention is invited to AFHQ Administrative Memo, No. 95, dated 27 December 1943. Every effort will be made by direct action between Commanding General, Peninsular Base Section and Allied Control Commission to assure that, to the maximum extent practicable, the project is financed both as to labor and materials by the Italian Government.

6. The Commanding General, Peninsular Base Section, is requested to take the necessary steps to secure authority for the use of Allied stores and equipment including accommodation stores and food as may required for the prompt accomplishment of his allocated task.

7. The rehabilitation should provide only reasonable safety and continuity of operation. Special safety features such as double insulator strings and duplicate switches may be ommitted. State safety codes and regulations may be disregarded.

8. The ability to transmit power to Rome within 30 days after the accupation thereof is desired.

/s/ A. L. Hamblen
Brig Gen for
Major General,
Chief Administrative Officer.

Copy to: ACMF
ACC
AFHQ
SOS NATOUSA
5th Army
8th Army
2 Dist.
3 Dist.
CEB
AFSC/MTO
RN
DDW Flambo
DQMG "
G-4 "

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

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

El & Adm Div.
WML/cob

6 Mar 44

ACC/057/PWU

Subject: Central Electricity Board.

To : Ing. Placido Ruggiero,
Ministero dei Lavori Pubblici,
Museo Nazionale,
Via Foria, Napoli.

1. In order to control and further the production of electric power it has been necessary to set up a Board known as the Central Electricity Board.

2. The Board is composed of representatives of the Armed Forces, including a representative from Allied Control Commission.

3. The representative from Allied Control Commission is Lt-Col W.M. LAPPER, Chief of the Electrical and Administrative Division of the Public Works and Utilities Sub-Commission and he will arrange to keep Ing. Placido Ruggiero informed of all matters dealt with by this Board in which the Italian Government will be interested.

W.M. LAPPER,
Lieut-Colonel,
Chief, El & Adm Div.

1. L'"Ente Autonomo Volturno" fu istituito con la legge 8 Luglio 1904 N° 351 recante provvedimenti per il risorgimento economico della città di Napoli.

Tale legge, dovuta alla iniziativa di studiosi ed uomini politici dell'Italia Meridionale e, in particolare, al Nitti, mirava a rendere possibile uno sviluppo nel Mezzogiorno d'Italia in genere e della città di Napoli in specie.

Uno dei provvedimenti escogitati a tal fine fu quello rivolto ad assicurare alle industrie (e, specie, alle piccole industrie) che si volevano promuovere nella città di Napoli, l'energia elettrica a buon mercato.

Si costituì a tal fine l'Ente Autonomo Volturno, che ha natura di ente pubblico, e al quale si attribuì il diritto di derivare gratuitamente tutta la forza idraulica ricavabile dalle sorgenti del Volturno. I capitali necessari alla costruzione dell'impianto furono anticipati a basso interesse dalle Casse Depositi e Prestiti (e cioè dallo Stato, della cui amministrazione la Cassa fa parte).

Secondo la legge istitutiva, la energia prodotta deve, durante le ore diurne, essere erogata esclusivamente allo scopo di favorire le industrie nel Comune di Napoli; nelle ore notturne, a qualsiasi scopo, ma sempre a consumatori diretti. Il prezzo dell'energia deve essere contenuto nel limite minimo possibile, escludendosi qualsiasi intenzione di lucro e stabilendosi che gli eventuali utili debbono impiegarsi al miglioramento dell'azienda ed alla riduzione del prezzo di vendita dell'energia.

Con leggi del 1921 (24.3.1921 N° 375) e del 1937 (28.4.1937 N° 796), furono dettate nuove disposizioni a proposito dell'Ente, e ne furono allargati i compiti, consentendo all'Ente stesso di assumere la gestione di altri pubblici servizi; ma, se si eccettua un periodo di temporanea gestione dell'azienda tramviaria, che fu per l'Ente revi- 2 4 2
sorio, non si ebbero sostanziali deviazioni dagli originari fini isti-

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

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

2. Il Consiglio di Amministrazione dell'Ente era costituito di nove Membri, ed essendo stato disciolto, vi è ora un Commissario nella persona del Dott. Prof. Ing. Luigi d'Amelio.
Il Direttore dell'Ente è il Dott. Ing. Mario De Falco.

3. Potenza della Centrale idroelettrica di Capo Volturno: 20.000 kW
" " " termica della Doganella: 10.300 "
(attualmente, questa seconda funziona con un carico massimo di 5.000 kW)

4. Numero utenti (al 31 dicembre 1941): circa 42.800

5. kwh prodotti (1942) 86.500.000

6. kwh erogati (1942)

- Illuminazione	6.347.000	
- Applicazioni elettrodomestiche	5.347.000	
- Trazione	41.593.000	
- Forza Motrice	18.765.000	72.052.000

7. Patrimonio (1939) Lire 110.000.000

8. Incassi (1939) " 20.000.000

9. Debiti

- Consolidati	35.000.000	
- Mutui da contrarsi (per far fronte alle perdite dell'esercizio tramviario 38 - 39 - 1° semestre 40)	32.000.000	
- Ulteriori oneri per canoni da corrispondere al Comune	6.000.000	
- Oneri ulteriori non ancora conteggiati nei bilanci 38 - 40, circa	4.000.000	" 77.000.000

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10. Data la situazione politica attuale (vedi Giornali locali, e specialmente l'Avanti del 19 febbraio), si ritiene che il momento non sia favorevole per un rilievo in una forma qualsiasi dell'Ente Autonomo Volturno da parte della Società Meridionale di Elettricità.

Napoli, 22 febbraio 1944

Declassified E.O. 12356 Section 3.3/NND No. 78,5019

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

(translation)

ELECTRICITY UNDERTAKING IN NAPLES
ENTE AUTONOMO VOLTURNO

The "Ente autonomo volturno" was instituted by law N.351 of July 8, 1940; that made provisions for the economic revival of the city of Naples.

Such law, due to the initiative of students and politicians of Southern Italy and particularly due to Mr. Nitti, was intended to make possible the development of the southern regions of Italy with special benefit to the city of Naples.

One of the provisions of this law was to insure to industries, especially to small industries that were growing in the city of Naples, cheap power. The Ente Volturno was organized for such purpose, having the characteristics of a public body and the privilege of the free use of the hydroelectric power obtainable from the Volturno's sources was granted to it. The capital necessary for the construction of the power plants were advanced, at a very low rate of interest by the Deposits and Loans Bank, a government institution.

As provided by the law that instituted it, the power produced during the day by the Ente Volturno must be solely sold to industries operating in the Naples Comune; night power must be kept at the lowest possible, excluding any element of profit and the law provides that eventual operating profits must be invested for the improvement of the installation and for the reduction of the power selling rates.

Law N. 379; March 23, 1921 and Law 796, April 28, 37 contain new regulations concerning Ente Volturno; its scope was enlarged, namaking possible for the Ente to operate other public services. However with the exception of a temporary operation of the street car enterprise, operation which proved very unprofitable for the Ente, it carried out exclusively the activities (electric) provided for by its by-laws.

2. Nine members formed its Board of Directors; the board having been dissolved, its functions have been entrusted to a "Commissario Mr. Luigi d'Amelio. The manager of the Ente is Mr. Mario de Maio.

3. Installed capacity of the Capo Volturno hydroelectric Power Station Kw 20,000

" " " " Dogmella thermo electric Power Station " 10,300

at the present time (the operating capacity of Dogmella plant is Kw 5,000) about 42,300

4. Number of consumers (as at Dec 31, 41) : 86,500,000

5. Kwh produced (in 1942)

6. Kwh supplied (in 1942)

Light	6,347,000	2427
Domestic appliances	5,347,000	
Transportation	41,393,000	
Industrial Power	18,765,000	72,092,000

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Report by Major F.W.H.Tuckett, R.E. on Hydro Electric Station at SERRAPDO ITALY Road Map 1/250,000 Sheet 11 Map Ref. 410% and ANDEGNI ITALY Road Map 1/250,000 Sheet 11 Map Ref.4103 on 8 January 1943.

Presented by Lt Col Cooley at 22 Jan 43 meeting

SERRAPDO.

This station has been considerably damaged by enemy deliberate demolitions. Prior to being demolished the station consisted of 5 horizontal turbines.

2 Sets each generating 5500 KVA and one set of 2700 KVA are fed by a pipe line coming from VOLETA VERDIANA situated on high ground due EAST of the station. The remaining 2 sets of 2100 KVA are fed from the LIRA river from a dam above the station. Station transformers fed out at 60,000 and 120,000 VOLTS.

Demolitions.

Enemy demolitions consisted of destroying all turbines and all generators in the station beyond complete rebuilding by original manufacturers or a firm of equal size, destroying the Engine Room building to ground level, and rendering the transformer and switch gear building unsafe. Both pipe lines and both headworks, dams etc., are reported undamaged.

Salvage.

Prior to enemy demolitions the Station operators dismantled the following items and hid them under ground and in local caves. These are intact or sustained only superficial damage as indicated.

1. One turbine for 5500 KVA Set complete with governor (less generator) intact. This Set was run from the VOLETA VERDIANA pipe at 300 metres head, consuming 2000 cubic litres per second at 500 RPM.
2. One transformer 5500 KVA. 5000 to 60,000 volts.
" " 2500 KVA. 5000 to 60,000 "
" " 12000 KVA.60,000 to 120,000 volts was stored in a cave with the centre winding damaged and insulators missing, spare insulators are reported to be on site but were not seen.
3. Switch gear

Switch gear for one 5500 KVA reported undamaged and buried underground.

Switch gear for 60,000 to 120,000 Volt transformer reported undamaged and buried underground.

4. Cranes

Main engine room crane buried underground and reported to be intact.

5. Instruments a considerable number of the main panel instruments are reported safe and buried underground.

It is impossible to inspect any of the items reported buried underground without ordering an excavation party to remove it from deep hard frozen earth, until this is done the information will have to be accepted only as information supplied by civilian employees of the company, this however should be fairly accurate.

Repairs by Company.

The Company is at present rebuilding the main engine room which is a separate building from the transformer and switch gear house, and have already reached an average all round height of 6' 0" above floor level.

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Recommendation. Re-erect the dismantled turbine and find any generator of 500 KVA of a reasonably correct size and install it.

ARMATORI. 3 hydro electric horizontal Sets.

Two Sets 450 KVA 1000 RPM feeding direct onto line at 6.5 KV.
One Set 920 KVA 750 RPM " " " " " " "

This plant is complete intact and all three Sets were on the line when visited. The control engineer reported that due to lack of water at present, full output was not possible.

The station is tied in to San Michele at 6.5 KV where transformers step it up to 20 KV.

The two small Sets run from 0800 hours until 1700 hours on local distribution and from 1700 hours to 0800 hours to Pistoia.

The large set supplies Pistoia for 24 hours a day.

/s/ F.E.H. Tuckett
Major R.E.
O.C.543rd F. & M. Coy,R.E.

2 1 7 21

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

Presented by Lt. Copley 22-45 Jan 22-45 meeting

The Sestalone powerhouse (Central Appenin Hydraulic Forces Co.) had:

A) No. 3 generators with Pelton turbines (H=220 int) of 1775 Kva and No. 3 transformers (ratio 5/30 Kv) of 1775 Kva.

Two of these generators and two transformers are totally destroyed. One generator and one transformer were dismantled in time and have been preserved.

B) No. 1 generator of 3550 Kva and two transformers ratio 5/60 Kv 3550 Kva. The alternator is partially destroyed, one of the transformers is totally destroyed, the other in in good conditions.

The engine room is completely destroyed. The overhead crane can be repaired. The rest of the powerhouse building is without roof.
Small damages were inspected to the manifold of the penstock. The dust itself was destroyed for a length of about 10 meters.
It looks as if the other intake structures did suffer only light damages.

PAVANA Railroad Powerhouse
Dam: intact at normal level; powerhouse completely destroyed.

SUVIANA Railroad Powerhouse
Dam: intact. One gate was blown up; also the three butterfly valves of the intake were blown up.
Powerhouse: completely destroyed.

All the drawings and records and records of these two plants were taken by Capt Rousen on occasion of his inspection of the works the 19 October 1944.

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3. Maria Powerhouse: We have no information.

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HEADQUARTERS
ALLIED CONTROL COMMISSION
Economic Section
APO 394

24 Feb. 1944

Subject: Electricity Supply.

To : Deputy Chief Administrative Officer Adv. A.F.H.Q.

1. Receipt of your communication of 21 Feb 1944 is acknowledged. In par. 2 you state that direct contact with S.M.E. will only be made with the prior approval of the Central Electrical Board.

2. We take objection to this ruling for the following reasons:

a. It had been agreed at your first meeting that this matter be referred to A.C.C. for comments. A.C.C. was not consulted.

b. At your second meeting, when this matter came up, our new representative on your Board, who attended your meeting for the first time, advised that he could not agree to such a procedure and Col.Growdon was directed to discuss this matter with Mr. Grady. This was not done and your order, therefore, is premature.

c. The P.W. and U. Sub-Comm. A.C.C., as well as our regional representatives, have many day to day problems to discuss with these officials in connection with distribution, management, rationing, labor, rates and numerous other matters and must have the right of access to this company, or any other company, in the performance of their duties without first obtaining approval from your Board.

It is, therefore, requested that your notice of 21 Feb. 1944 be withdrawn and that we be permitted to function as in the past.

2/18

C.C. to No.2 District
No.3 District
C.G. P.B.S.

HENRY GRADY
Vice President
Economic Section

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

HEADQUARTERS
ALLIED CONTROL COMMISSION
Public Works and Utilities Sub-Commission

El & Adm. Div
WEI/cw

24 Feb 44

Subject: Central Electricity Board.

To : Lt. Col. Jenny.

1. With reference to the letter from A.F.H.Q. Adv. Adm Echelon dated 21st Feb 44 ref 59/8/Q2, under the above subject. This matter is referred to in my report to you dated 23 Feb 44.

2. My report on this matter stated:-

(a) The <u>first meeting</u> of the Central Electricity Board agreed that it was desirable to restrict the number of people approaching the S.M.E. Co. direct without prior authority fr from the Board. It was decided that a draft letter should be prepared and sent to A.C.C. Action by Vice Chairman (Col. Crowdon)

(b) I was not on the Central Electricity Board for the first meeting, but was later appointed and attended the second meeting.

(c) At the second meeting, under matters arising out of the minutes of the first meeting, I stated that A.C.C. had not received the draft letter, and that I could not agree with the resolution as it was necessary for ACC to have direct access to all Companies. It was then agreed that Col. Crowdon would see Mr. Grady.

3. The above letter now received is the result of this, except that instead of it being a draft letter it is now issued as an instruction from A.F.H.Q..

4. I wish to make it perfectly clear that ACC have not been consulted in any way with regard to this matter, and thatI, as the ACC representative on the Central Electricity Board, stated very definately at the meeting held on the 20 Feb 44 that I could not agree with the decision and that the matter must be referred to the ACC, <u>to which the meeting agreed</u> .

5. With regard to this Sub-Commission having to ask the Central Electricity Board permission before approaching the S.M.E. Co. I make the following observations:-

(a) Our relations with the S.M.E. Co. are excellent.

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(b) Some of the S.M.E. Co. staff visit our office at least twice a week.

(c) It is quite impossible for this Sub-Commission to function if, as it is stated in the letter, we first have to obtain permission from the C.E.B.

(d) Such matters as distribution of Electricity management, Rationing of Electricity, Rate problems, and such numerous other matters, require a constant contact with the S.M.E. and other companies concerned.

(e) It is difficult to understand why the S.M.E. Co. is the only one chosen in this letter, there are many other Electricity Co's in Southern Italy and in Naples Area.

(f) The Regional representative will be quite unable to carry out his duties of allocating Electrical energy and the many other functions which turn up within a region which call for prompt action and immediate discussion with the Power Co.

(g) Almost daily meetings are held with the S.M.E. by Region III to discuss availability of supplies and new consumers, and later with P.B.S.

(h) S.M.E. Company have been most anxious to give us all assistance and data which we have asked for.

Conclusion

It is important that the letter from AFHQ Adv. Adm. Echelon, Ref. 59/8/Q2 dated 21 Feb 44 be completely withdrawn, and in the meantime in order that this Sub-Commission may continue to carry out its functions I am continuing the discussions with the Company on the work which we have on hand at the present time.

Attachments for Reference.

1. Letter from AFHQ Adv. Adm. Ech. Ref. 59/8/Q2. dated 21 Feb 44.
2. Adm. instruction No 27, setting up of CEB, para. 6(b) is referred to in letter.
3. Minutes of first meeting of CEB.
4. Noted of second meeting of CEB (minutes not yet received).

W.M.LAPPER.
Lieut-Colonel.
Chief, El & Adm. Div.

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

HEADQUARTERS
ALLIED CONTROL COMMISSION
Public Works and Utilities Sub-Commission

El & Adm Div
WML/ccb

Subject: Central Electricity Board. 23 Feb 44

To : Lt-Col Jenny. ✓

1. At the first meeting of the Central Electricity Board, held 13 Feb 44, the following minute states:

"Item 7.
It was agreed that it was desirable to restrict the number of people approaching the S.E.E. Co. direct without prior authority from the Board. It was decided that a draft letter should be prepared and sent to ACC. Action by Vice-Chairman (Col Growdon)."

2. I was not on the Board for this first meeting, but at the second meeting held on 20 Feb 44 I had been appointed and attended.

3. Under matters arising from the minutes of the first meeting I stated:

"Item 7 above. I could not agree to the ruling that access to any company office should be restricted and that ACC must have full access in order to carry out its proper functions." I informed the meeting that we had been waiting for the draft letter and Col Growdon replied that this was a mistake in the minutes and should have read ACMF (Allied Central Mediterranean Forces) and not ACC.

4. After a discussion the Chairman agreed to Col Growdon's suggestion that he, Col Growdon, would see Mr Grady in order to settle the matter.

W.M. LAPPER,
Lieut-Colonel,
Chief, El & Adm Div.

2415

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

Econ Sec.

Subject: Electricity Supply. AFHQ ADV[illegible] CMF.

22/2/44. 051

21 Feb 44. Rlw

To:- Allied Control Commission.
No. 2 District.
No. 3 District.
CI, Peninsular Base Section.

1. The ACAF Central Electrical Board was set up in this HQ Administrative Instruction No. 27 dated 8 Feb 44, and it has now been agreed that it is desirable to restrict the number of people and organisations having direct dealings with the Societa Meridionale di Electricita.

2. In future therefore, direct contact with SME will only be made with the prior approval of the board, except in those cases covered by para 6(b) of Adm Instr. No. 27.

3. In those cases, an officer will be appointed to deal directly with the SME, wherever such direct contact is necessary.

W.D. Hutching
Major-General, Eng
Deputy Chief Administrative Officer.

Copy to:- G-4
ACAF CMH
DLW

pw'd
to print
reply

2:1 (1)
SMH

22 Feb 44

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

14 Feb 44.

SUBJECT: Meeting of the Central Electrical Economic Board.

Meeting of February 13, 1944.

Brigadier Rogers - presiding

PRESENT: Col. Crowdon,
Lt. Col. Burns, PBS,
Lt. Col. Cooley, PBS,
Lt. Col. Smith, Director of Works,
Mr. R. Tirone of the ACC.

1. The agenda of the meeting is attached.

2. Item 2b of agenda: The decision was to vest responsibility for the transmission line through Rome to the PBS, the representative of which undertook to prepare a plan for submission to the board at its next meeting which will contain a statement of what is needed for rebuilding the transmission line to Rome and which would permit a decision regarding the allocation of this work at the next meeting.

3. Item 2c of agenda: The work on preparing floating energy emergency power equipment for Rome was allotted to the Director of Works.

4. Item 2d of agenda: The preparation of a telegram to AGWAR is to be undertaken by PBS and the Director of Works with Col. Crowdon doing the final drafting.

5. Additional points raised at the meeting:

a. The powers of the military authorities on the subject of the control of electric power and its distribution in territory turned over to the Italian government. Col. Burns is to obtain a confirmation of the existing powers of control in this field.

b. Contact with Societa Meridionale Elletricita: Col. Crowdon wanted to channel all contacts with SME exclusively through himself. Objections were raised to the procedure and a draft suggesting that contacts from each of the interested agencies such as PBS, ACC, should channel through the head of an interested body in each organization is to be sent around before next meeting by Cols. Crowdon & Burns.

Rifat Tirone. R2.41

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A.C.M.F.
CENTRAL ELECTRICAL BOARD

18 February 1944

SUBJECT: Agenda for 2nd Meeting of A.C.M.F. - C.E.B.

TO : Chief Engineer A.C.M.F.
C.G. - P.B.S. (Col Burns)
D.D.E. A.C.M.F. (Lt Col Smith)
Chief Commissioner A.C.C. (Lt Col Hooper)

1. The second meeting of the A.C.M.F. - C.E.B. will be held at the Office of D.D.E. at 0900 hrs 20 Feb. 1944.

2. The following agenda will be considered

a) Reply to the telegram from Somervell to Grady re power for Rome and power supply in general.
b) Recommendation that all phases of the power supply for Rome be declared a military operation.
c) Recommendation that S.M.E. be required to assume the management and operation of the Dogmella diesel plant now owned and operated by the Ente Autonomo Volturno.
d) Recommendation that orders be issued to all troops A.C.M.F. and to all civilian in Allied Italy that transmission line and electric power equipment and material of every kind shall not be damaged carried away or stolen.
e) Recommendation that all Electric Power equipment, apparatus, material and supplies in A.C.M.F. Italy be frozen and released for use only upon prior authorization of the A.C.M.F. - C.E.B.
f) Such other matters as may be presented by members of the Board.
g) To fix the time for the next meeting.

James P. Gowdon

JAMES P. GROWDON
Colonel CE
Vice Chairman A.C.M.F. - C.E.B.

2/12

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HEADQUARTERS
ALLIED CONTROL COMMISSION
ECONOMIC SECTION
APO 394

SS/JBT/sma

12 February 1946

SUBJECT: ACAC Central Electrical Board.

TO : AFHQ Adv. Adm. Echelon.

Reference your 19/Q dated 9 February 1946, paragraph 2, herewith names of representatives and alternate of Chief Commissioner, Allied Control Commission.

Representative - Lt. Col. W. W. LAPPEN (A)

Representative - Capt. L. W. LAUGHLIN (A)

For Lieutenant General MACFARLANE

J. Bruce Thompson maj -
J. BRUCE THOMPSON
D. S. AIRES
Colonel, G. S.
Chief of Staff Officer

Lt Col Lappen

This has taken sometime —

Rec'd 2/4/46

A.F.H.Q. Adv.Adm.Echelon,
C.M.F.
19/Q
8 Feb.44

A.F.H.Q. Adv.Adm.Echelon
Adm.Instruction N°27

A.C.M.F. CENTRAL ELECTRICAL BOARD

1. A Board to be known as the A.C.M.F. Central Electrical Board will be established forthwith, to co-ordinate the work of civil and military agencies in the rehabilitation of the electrical power system in all territories which are or will be controlled by H.Q., A.C.M.F.

2. The constitution of the Board shall be as follows:-

Chairman:	Chief Engineer, A.C.M.F.
Vice Chairman:	Colonel James P.Growden A.U.S.
Members:	Representative of C.G., P.B.S.
	" " D.D.W., A.C.M.F.
	" " Chief Commissioner, Allied Control Commission.

The names of the representatives mentioned above, together with the name of one alternate in each case, will be forwarded to this H.Q.

3. The Vice Chairman shall be the Chief Executive of the Board. He will be responsible for ensuring that action is taken in accordance with the decision of the Board. All documents issued by the Board including notices of meetings, will be signed by him.

4. A Secretariat of two officers (one British, one U.S.) and necessary clerical staff will be provided to transact the business of the Board and to carry out detailed planning on its instructions; and additional officer will be appointed to act as Personal Assistant to the Vice Chairman.

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5. The Board is empowered to co-opt or to request the attendance of such other technical representatives as they may consider necessary from time to time.

6. The functions of the Board shall be as follows:

(a) To establish plans for the repair of the electric power system in the territory occupied or which may be occupied by A.C.M.F., with a view to meeting essential military and civil

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2. The constitution of the Board shall be as follows:-

Chairman: Chief Engineer, A.C.M.F.

Vice Chairman: Colonel James P.Growden A.U.S.

Members: Representative of C.C., P.B.S.
" " D.D.W., A.C.M.F.
" " Chief Commissioner, Allied Control Commission.

The names of the representatives mentioned above, together with the name of one alternate in each case, will be forwarded to this H.Q.

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5. The Board is empowered to co-opt or to request the attendance of such other technical representatives as they may consider necessary from time to time.

6. The functions of the Board shall be as follows:

(a) To establish plans for the repair of the electric power system in the territory occupied or which may be occupied by A.C.M.F., with a view to meeting essential military and civil needs as effectively and expeditiously as possible.

(b) To allot the work do be done as between the military and civil engineer agencies.

(c) To allocate resources of material and equipment available in the country for the repair and operation of the electrical system.

Cont/... Sheet 2...

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(d) To advise the military and civil supply services as to the stores and equipment which shall be required and which cannot be obtained from local civil resources.

(e) To exercise general control over the operation of the power system and to ensure that essential military and civil needs are met with the maximum of economy.

(f) To keep the Electric Power Committee of the Local Resources (Italian) Board informed as to the quantity of electricity available for distribution.

7. The Board will submit their recommendations on matters of policy to the C.A.C., A.C.M.F. and will receive from that officer directions based upon its recommendations. These directions will cover, in particular, policy regarding priority work to be carried out. All policy instructions will be issued through normal Staff channels, but executive action on matters which are covered by established policy, will be taken by the engineer agencies concerned, on the basis of decisions reached at meetings of the Board.

8. Although FIFTH and EIGHTH Armies are not represented on the Board, the Board is responsible for establishing the general plan of rehabilitation of the electric system within Army areas and for ensuring that the work done by the engineers of the armies conforms to the general plan. To this end, the Board will work in close co-operation with the Chief Engineers of Armies, and will, through their Chairman, request the presence of representatives of Armies at their meetings whenever this may appear advisable.

9. Responsability for the allocation of electric power to the various consumers remains with the Electric Power Committee of the Local Resources (Italian) Board.

Major-General;
Deputy Chief Administrative Officer

BHR/emb.

DISTRIBUTION:

FIFTH ARMY (5)
EIGHTH ARMY (5)
A.F.H.Q. (30)
1 District (2)
2 District (16)
3 District (5)
P.B.S. (3)

Flag Officer, Taranto
Flag Officer, Western Italy
C.E., A.C.M.F.
Col. James P. Growden,
c/o C.E., A.C.M.F.
D.D.C.A.C., A.F.H.Q. Adv. Adm. Ech.
D.D.W " " " "

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

distribution.

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Major-General;
Deputy Chief Administrative Officer

BHR/emb.

DISTRIBUTION:

FIFTH ARMY (5)
EIGHTH ARMY (5)
A.F.H.Q. (30)
1 District (2)
2 District (16)
3 District (5)
P.B.S. (3)
12 A.F.S.C. (3)
15 A.F.S.C. (3)
Chief Commissioner,A.C.C. (2)
Flag Officer, Taranto
Flag Officer,Western Italy
C.E., A.C.M.F.
Col.James P.Growden,
c/o C.E.,A.C.M.F.
D.D.C.A.C.,A.F.H.Q. Adv.Adm.Sch.
D.D.W " " " "
D.D.C.S. " " " "
D.D.S.T. " " " "
D.D.M.E. " " " "
D.G.M.R.S. " " " "
A.F.L.R.S. " " " "

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