

ACC III/PWU

10000/150/671

REPO
MAY

10000/150/671

REPORTS FROM BOLOGNA
MAY - NOV. 1945

Società Bolognese di Elettricità ^{BN}

SOCIETÀ PER AZIONI CON SEDE IN BOLOGNA

Capitale Lire. 10.000.000 interamente versate

Telegrammi BOLOGNESE BOLOGNA
 Telefono interc. 21668
 Casella Postale N. 225
 C.P.C. Bologna 16101

Bologna, li 8 novembre 1945
 Via Indipendenza, 69

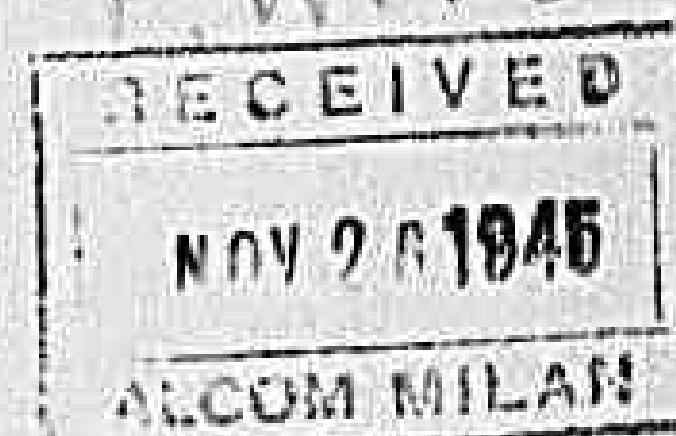
DA CITARE (*Prot. N.*
 NELLA *2.469/ 1327 R/2*
 RISPOSTA *Ufficio*

To Electrical Division
 P.W. and U.
 Allied Commission APO 394

ALLEGATI N° 1

MILANO

Ref. Th. 632141 - Ext. 33
Sub. Outstanding Bills Emilia Region



Inviemo dichiarazione dell'artista Gino Padovani di
 essere stato saldato di ogni suo avere (L. 11.240) per
 sue prestazioni dal 11/8 al 15/9.

Distinti saluti

Società Bolognese di Elettricità

Il D. Direttore Generale

*ing. Aldo 5292*Translation

We are forwarding you a statement of the driver Gino
 Padovani stating that he has been paid for the services he
 has done from the 11th August to the 15th September
 (L. 11.240) and therefore his account is settled down.

Yours truly

Società Bolognese di Elettricità

Il D. Direttore Generale

Aldo

8.11.1945

Spett. Società Bolognese di Elettricità
B o l o g n a

Dichiaro di essere stato saldato di ogni mia spettanza per i servizi e spese da me sostenute nell'interesse del Public Works and Utilities dell'Allied Military Government di Bologna, come da quietanze da me rilasciateVi.

inn. S. Rossi

Visto
Società Bolognese di Elettricità
Il D. Direttore Generale
ing. Aldo Righi

5291

FIELD REPORT = 12 September 1945

S.B.E. - S.E.R. - FF. SS.

1. Following is a summary of the electrical situation in this area.

a. Transmission Lines Repaired

1. Tre Madonne-Battiferro 3/3 (Bologna) 50 KV (Second line) Completed 14 August - 10 Km. -
2. Portomaggiore-Forlì - 50 KV = Completed 4 August - 57 Km.
3. Portomaggiore-Bologna - 50 KV = Completed 17 July - 46 Km. -
4. Portomaggiore-Ferrara - 50 KV = Completed 7 July - 25 Km.
5. Forlì-Cesena - 15 KV = Completed 8 August - 20 Km. -
6. Forlì-Faenza - 15 KV = Completed 8 August - 17 Km. -
7. Forlì-Ravenna - 15 KV = Completed 8 August - 28 Km. -
8. Portomaggiore-Migliarino - 15 KV = Completed 15 July - 15 Km. -
9. Portomaggiore-Buorio - 15 KV = Completed 17 July - 26 Km. -
10. Portomaggiore-Argenta - 15 KV = Completed 31 July - 30 Km. -
11. Cotignola-Ravenna - 50 KV = Completed 10 September - 25.5 Km. -
12. Cesena-Rimini - 15 KV = Completed 10 September - 35 Km. -

b. Transmission Lines Not Repaired

1. Riferdi-Bologna-130 KV = Progress slow
2. Farneto-Foce e Giovo-130 KV = Finish in October
3. Cesena-Forlì-50 KV = Finish in October - 20 Km. -
4. Cesena-Villalta-Rimini-30 KV = 67 towers down, 60 tons of wire needed
5. Cesena-Mercato Saraceno-30 KV = 25 towers down; finish in October - 20 Km. -
6. Cesena-Cesenatico-15 KV = 10 towers down; insulators for total line; 20 tons copper needed - 18 Km. -

c. Sub-Stations

1. Battiferro (Bologna)

3 x 6,000 KVA 50/3 KV = In service
 4,000 KVA 50/3 KV = In service
 6,000 KVA 50/15 KV = In service
 6,000 KVA 50/15 KV = In service

5290

3. Portomaggiore-Bologna - 50 KV - Completed 7 July - 25 Km.-
4. Portomaggiore-Ferrara - 50 KV = Completed 8 August - 20 Km.-
5. Forlì-Cesena - 15 KV = Completed 8 August - 17 Km.-
6. Forlì-Pesenza - 15 KV = Completed 8 August - 28 Km.-
7. Forlì-Ravenna - 15 KV = Completed 15 July - 15 Km.-
8. Portomaggiore-Migliarino - 15 KV = Completed 17 July - 26 Km.-
9. Portomaggiore-Budrio - 15 KV = Completed 31 July - 30 Km.-
10. Portomaggiore-Argenta - 15 KV = Completed 10 September - 25.5 Km.-
11. Cotignola-Ravenna - 50 KV = Completed 10 September - 35 Km.-
12. Cesena-Rimini - 15 KV = Completed 10 September - 35 Km.-

b. Transmission Lines Not Repaired

1. Riferedi-Bologna-130 KV = Progress slow
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c. Sub-Stations

1. Battiferro (Bologna)

- 3 x 6,000 KVA 50/3 KV = In service
 4,000 KVA 50/3 KV = In service
 6,000 KVA 50/15 KV = In service
 6,000 KVA 50/15 KV = In service
 5,000 KVA 60/50 KV - (Crevalcore F.F.S.S. line) in service
 10,000 KVA 50/15 KV (CGE) = Damaged core withdrawn repair-
 ed from CGE Milan. In service at the end
 of September.
 6,000 KVA 50/3 KV (OTB) = Damaged core repaired at OTS
 Bergamo

2. Tre Madonne (Bologna)

- 15,000 KVA 120/50/15 = In service

3. Edison (Bologna)

Transformers destroyed

4. S. Viola (Bologna F.F.S.S.)

Completely destroyed

5290

5. Forlì

6,000 KVA 50/15 KV O.T.E. = In service
 { 250 KVA 15,000/220 V O.T.E. = In service
 { 150 KVA 220/3,000 V T.I.B.B. = In service
 { 150 KVA 220/3,000 V T.I.B.B. = In service
 450 KVA 15/3 KV A.E.G. = In service
 5,000 KVA 50/15 KV (C.G.E.) = Is ready at Bussolengo for
 movement to Forlì
 3,000 KVA 50/15 KV (T.I.B.B.) = Case damaged will be re-
 paired at Forlì
 3,000 KVA 50/15 KV = Core and case damaged will be trans-
 ported to factory

6. Cesena

2,000 KVA 15/5 KV (Scotti-Brioschi) = In service
 8,000 KVA 50/15 KV = Will be in service in the next days
 6,500 KVA 50/30/5 KV (T.I.B.B.) = Damaged windings to be
 sent to Arzignana
 2,000 KVA 50/30/15 = Will be in service in the next days
 2,000 KVA 50/30/15 = " " " " " " " "

7. Ravenna

300 KVA 15/2 KV (Marcelli) = In service
 2 x 1,000 KVA 50/30/15/2 KV = Will be in service soon
 3,000 KVA 50/15 KV = Case damaged will be repaired at
 Bergamo.

8. Faenza

500 KVA 15/5 KV Westinghouse = In service
 500 KVA 15/5 KV = In service

9. Rimini

2,000 KVA 30/5 KV Scotti-Brioschi = In service for U.M.E.S.
 line
 600 KVA 15/5 KV T.I.B.B. = In service

d. Steam Generating Plants

1. Eridania-Classe-500 KW = Shut down
 2. Eridania-Forlì-50 KW = Shut down
 3. Mengelli-Forlì-300 KW = One unit operating for few days
 4. Melandri-Faenza-70 KW = Shut down.

5289

3,000 KVA 50/15 KV = Core and case damaged will be trans-
ported to factory

6. Cesena

2,000 KVA 15/5 KV (Scotti-Brioschi) = In service
8,000 KVA 50/15 KV = Will be in service in the next days
6,500 KVA 50/30/5 KV (T.I.B.B.) = Damaged windings to be
sent to Arzignana
2,000 KVA 50/30/15 = Will be in service in the next days
2,000 KVA 50/30/15 = " " " " " "

7. Ravenna

300 KVA 15/2 KV (Marelli) = In service
2 x 1,000 KVA 50/30/15/2 KV = Will be in service soon
3,000 KVA 50/15 KV = Case damaged will be repaired at
Bergamo.

8. Faenza

500 KVA 15/5 KV Westinghouse = In service
500 KVA 15/5 KV = In service

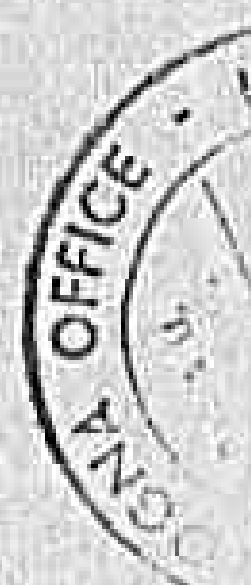
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2,000 KVA 30/5 KV Scotti-Brioschi = In service for U.S.S.
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d. Steam Generating Plants

1. Eridania-Classe-500 KW = Shut down
2. Eridania-Forli-50 KW = Shut down
3. Mangelli-Forli-300 KW = One unit operating for few days
4. Melandri-Faenza-70 KW = Shut down.

5289



Clarence S. Wilcox
Major Ordnance
Chief Ordnance Office

DISTRIBUTION:

Lt Col Parker
Major Wilcox
Major Barry
File

Società Bolognese di Elettricità

SOCIETÀ PER AZIONI CON SEDE IN BOLOGNA

Capitale Lire. 100.000.000 interamente versate

Telegrammi: BOLOGNESE-BOLOGNA
 Telefono interc. 21668
 Casella Postale N. 225
 C.P.C. Bologna 16101

Bologna, li 27 Agosto 1945
 Via Indipendenza, 69

DA CITARE | *Prot. N. B.467/ 113 R/z*
 NELLA |
 RISPOSTA | *Ufficio*

To Major Norman
 Via della Zecca 1

B o l o g n a

ALLEGATI N°

Facciamo seguito alla nostra B.466/472 del 16 corrente mese per inviarVi n.10 buoni di scarico per complessivi litri 263 di benzina.

Alla rimanenza di litri 534 si sono aggiunti, in data 25 corr., litri 2600 di benzina.

Attualmente la benzina in nostra consegna residua così a 2871 litri.

Distinti saluti

SOCIETÀ BOLOGNESE DI ELETTRICITÀ
 Il Direttore Tecnico

Aut. [firma]

5288

Società Bolognese di Elettricità

RECEIVED
MAY 3 AUG 1945

SOCIETÀ PER AZIONI CON SEDE IN BOLOGNA

Capitale Lire 10.000.000 interamente versate

P.W.U.

HQ. LOMBARDIA REG.

Telegrammi BOLOGNESE BOLOGNA
Telefono interc 21668
Casella Postale N. 225
C.P.C. Bologna 16101

Bologna, li 27 AGO. 1945
Via Indipendenza 69

DA CITARE NELLA RISPOSTA Prot. N. B.466/ 343 R/z
Ufficio

Electrical Division
Public Works and Utilities
APO 394

Milano

ALLEGATI N°

e per conoscenza
Azienda Idroelettrica SADE
S. Marco 4423 A
Venezia

Electric Generation Statistic

Risponde alla 108/21 del 26 luglio, qui pervenuta in ritardo, diretta all'Azienda Elettrica Municipale di Bologna.

Detta Azienda e la sottoscritta Società non posseggono centrali di produzione dell'energia elettrica.

I dati statistici richiesti sono compresi in quelli che la SADE e la Edison - alle quali è stata pure inviata la circolare - trasmetteranno direttamente in risposta alla circolare stessa.

SOCIETÀ BOLOGNESE DI ELETTRICITÀ

Il Direttore Tecnico

Antony

Translation

Replying to your letter 108-21 of the 26 th. July, which was addressed to the Azienda Elettrica Municipale and has therefore arrived with delay.

The aforesaid Azienda and the undersigned Società have no generating plants of electric power.

The statistic data requested are included in those of the SADE and the Edison to whom the circular letter has also been forwarded and you will receive a reply directly from them.

Antony

RECEIVED

13 AUG 1945

HQ AMG LOMBARDIA REG.
*MM*FIELD REPORT - 8 August 1945

S.E.R. - FF. SS.

P.W.U.*fw*

1. Portomaggiore - Forlì 50 KV line - Complete.
2. Progress on Riferdi - Bologna 120 KV line is very slow.
 - a. Lt Cooper's platoon were pulled off this job 30 July. Since then and at present the railroad has about 70 men working.
 - b. Arrangements have been made for mine clearing (only a few men available).

Roy T. Norman
Major Sig C.
Chief Bologna Office

Distribution:

Lt Col Parker
Major Wilcox
Major Barry
Major Hyland
Major Norman

*Room 47**III Floor*

5286

RECEIVED

27 JUL 1945

HQ Army Command REO.

FIELD REPORT - 23 July 1945

FF-SS

S.B.E.

P.W.U.

W

1. The 50 KV line Portomaggiore-Bologna is complete.
2. Progress on Rifredi-Bologna 120 KV Transmission line is as follows:
 - Rifredi-five (5) Km North Grizzana = Complete
 - Grizzana-Vado + 3 Km = Two towers not complete.
 - Vado-Planoro = 9 towers down. This section not cleared of mines. 90 towers all wire missing.
 - Farneto-Gunzia = 17 towers down, one (1) completed to day. 7 towers with the first section erected, rest dismantled for repair.
 - Tre Madonne to junction S.Lazzaro = 7 towers down, 2 of these 50% erected. This section not been cleared of mines.
3. Lt Cooper has at present 230 civilians working for him. These men are divided into crews under supervision of soldiers. Mine clearing crew consists of 12 soldiers.
4. It will be to the best advantage of all concerned if Lt Cooper and his men are continued on this job.

Roy T. Norman
Major Sig C.
Field Engineer

DISTRIBUTION:

Lt Col Lapper
Major Wilcox
Major Hyland
Major Barry
Major Norman

28 5285

RECEIVED

111 21 JUL 1945

EQ And ... A HQ

FIELD REPORT - 18 July 1945
=====

S.B.E. & S.E.R.

P.W.V. *chw*

1. Present rate of progress on Portomaggiore-Ferli 50 KV line by both S.E.R. and 25 E and M platoon

Line tensioned	75%
Pylons erected	90%
Pylons complete	80%
Sub-Station Ferli	90%

2. Total copper needed for this line has been obtained and is stored at Ferli.

3. S/Sgt Sharples of 25 E and M platoon informs me that the completion date for this line has always been 15 August not 31 July. He hopes to finish on time.

4. Following lines are complete:

Co	Line	Voltage	Date completed
S.B.E.	Bologna Water Supply	15 KV	16 July
Imola	Bologna - Imola	15 KV	18 July
S.E.R.	Portomaggiore-Migliarino	15 KV	14 July
S.E.R.	Portomaggiore-Ferrara	50 KV	12 July
S.E.R.	Portomaggiore-Budrio	15 KV	14 July

Roy T. Norman
Major Sig C.
Field Engineer

DISTRIBUTION:

Lt Col Lapper
Major Wilcox
Major Hyland
Major Barry
Major Norman

Room 47 IV Floor

528/

RECEIVED

3 JUL 1945

MR AGC LONGARDA 249.

CONFERENCE=27 June 1945

Major Wilcox
 Capt Rogers
 Eng Marin S.A.D.E.
 Eng Forli S.A.D.E.
 Eng Ambrosini S.E.P.
 Eng Modé S.E.R. and S.B.E.
 Eng Righi S.B.E.

1. Completion schedule of lines agreed upon:

Ferrara-Portomaggiore (50 KV)	15 KV	7 July
Bologna-Portomaggiore	50 KV	20 July
Portomaggiore-Tower No 80 (Toward Forli) 50KV		31 July
Forli Sub-station 6000 KVA, 50/15/7-5 KV		31 July

Above work to be performed under direction of Eng. Forli, S.A.D.E. with assistance for transportation and welding equipment by 25 E&M platoon. Assistance for necessary conductor by this office. This office to assist in moving transformer and switching equipment from Ferrara to Forli.

2. Priority of wire delivery from Brescia redrawing works including both Villa Carcina and Metallurgica plants.

Priority	Co	Line	Voltage	Wire Size	Tons
1.	SBE	Water Supply	15	8 mm	19
2.	SER	Porto-Forli	50	50 mm	35
2 A	SER	Porto-Argenta	15	50 mm	6
2 B	IMOLA	Bologna-Imola	15	50 mm	12
3	SER	Cesena-Rimini	15	35 mm	36
4	SER	Cotignola-Ravenna	50	50 mm	22
					<u>Total 130</u>

The above schedule contemplate concurrent withdrawal of 50 mm from Villa Carcina and 35 mm from Metallurgica.

3. A program of rehabilitation for the 120 KV Tre Madonna-Forli transmission line from Tre Madonna to crossing with the FF SS Bifredi line is under consideration. Repairs to seven towers

P.W.U.

H13

Ferrara-Portomaggiore (50 KV) 20 July
 Bologna-Portomaggiore 31 July
 Portomaggiore-Tower No 80 (Toward Forli) 50KV 31 July
 Forli Sub-station 6000 KVA, 50/15/7.5 KV 31 July

Above work to be performed under direction of Eng. Forli, S.A.D.E. with assistance for transportation and welding equipment by 25 E&M platoon. Assistance for necessary conductor by this office. This office to assist in moving transformer and switching equipment from Ferrara to Forli.

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Priority	Co	Line	Voltage	Wire Size	Tons
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2.	SER	Porto-Forli	50	50 mm	35
2 A	SER	Porto-Argenta	15	50 mm	6
2 B	IMOLA	Bologna-Imola	15	50 mm	12
3	SER	Cesena-Rimini	15	35 mm	36
4	SER	Cotignola-Ravenna	50	50 mm	22
					<u>Total</u> 130

The above schedule contemplate concurrent withdrawal of 50 mm from Villa Carcina and 35 mm from Metallurgica.

3. A program of rehabilitation for the 120 KV Tre Madonne-Forli transmission line from Tre Madonne to crossing with the FF SS Riffredi line is under consideration. Repairs to seven towers and replacing of some 150 sq mm aluminum-steel conductor is necessary.

Clarence S. Wilcox
 Major 5283
 Field Engineer

DISTRIBUTION:

Lt Col Lapper
 Lt Col Parker
 Lt Col Spahn
 Major Barry
 Eng. Modé (S.B.E.)
 File

RECEIVED

11 JUL 1945

HQ ARS LOMBARDIA REG.

FIELD REPORT-26 June '45FERRARA
SEP

1; Repaired 4000 KVA, 50/10 KV aircooled outdoor type transformer was moved from San Lucca sub-station to Codigoro sub-station this date.

2. Installation of this unit will allow tension of line Pontelungo-Codigoro to be increased to 50 KV .

Clarence S. Wilcox
Major Ord
Field Engineer

DISTRIBUTION:

Lt Col Lapper
- Lt Col Parker
Lt Col Spann
Major Barry
Major Wilcox

5282

RECEIVED

27 JUN 1945

HQ AND KENNEDY REG.

FIELD TRIP - 23 June 1945

FORLI'
SER

P.W.U.

H03
P

1. Present rate of Progress on Portomaggiore-Forli 50 KV line by 25 E and M platoon.

Line tensioned	28%
Tower base sections manufactured	15%
Pylons erected	10%
Pylons dressed	40%
Towers stripped and taken to workshop	20%

2. The 127th Bomb Disposal Platoon has mine removal teams working in close liaison with the 25 E&M platoon. Line has been cleared as far north as Cotignola. Progress of work is not being held up by mines.

3. Copper is needed for the line at once. Twelve tons processed at Brescia and transported to Imola contrary to existing priorities are being shifted to Forli. Remaining amounts will be secured from Brescia redrawing works upon completion of present priority shipment for Bologna water works system. Scrap copper is now being hauled to Brescia for processing.

Clarence S. Wilcox
Major Ord
Field Engineer

DISTRIBUTION:

Lt Col Lapper
Lt Col Parker
Major Barry
Lt Col Spann
Major Wilcox

5281

27 JUN 1945

NO 4000 LUGGAGE REG.

FIELD REPORT - 23 June 1945

RAVENNA -

SER

P.W.U.

HJB

1. Eng. Nicolis of the Romagnola Co. was contacted in Ravenna relative to a survey of sub-station and transmission facilities.

2. Ravenna Sub-station.

a. Transformers. One 2000 KVA, 5/2 KV unit damaged beyond immediate repair. One 2000 KVA, 50/15 KV unit with case badly damaged, can be repaired. Two 1000 KVA, 50/30/15/2 KV units have been repaired and are now available for use.

b. Switching equipment. Need 50 KV oil circuit breakers.

3. Cotignola-Ravenna 50 KV line. There are 49 towers down and 22 tons of 50 sq.mm. copper are needed to make repairs. Oxygen and acetylene are needed for welding towers as well as transportation. Work will not commence on this line until after Portomaggiore-Ferri line has been completed.

Clarence S. Wilcox
Major Ord
Field Engineer

DISTRIBUTION:

Lt Col Lapper
Lt Col Parker
Major Barry
Lt Col Spann
Major Wilcox

5280

HVB

Società Bolognese di Elettricità

SOCIETÀ PER AZIONI CON SEDE IN BOLOGNA

Capitale L. 70.000.000 interamente versato

Strada Maggiore 34

Bologna, li

22 Giugno 1945

~~Via Indipendenza 69~~

Telegrammi: BOLOGNESE-BOLOGNA
 Telefono interc. 21668
 Casella Postale N. 225
 C.P.C. Bologna 16101

DA CITARE { Prot. N. B. 465/142 R/z
 NELLA
 RISPOSTA { Ufficio

ALLEGATI N° 2

To Capt. Best
 A.M.G. - Emilia Region
 Via della Zecca 1
 Bologna

Fornitura a Bologna di energia Emiliana a 60 kV

Le comunichiamo, per Sua conoscenza, copia di lettera 12 giugno della Società Emiliana Esercizi Elettrici e della nostra risposta in data odierna.

SOCIETÀ BOLOGNESE DI ELETTRICITÀ
 Il Direttore Tecnico

A. Righi

Translation

Subject: Supply for Bologna of Emiliana energy at 60 kV

We forward you, to have you know, a copy of the letter of the 12 th June of the Società Emiliana Esercizi Elettrici and a copy of our reply of to-day 's date.

A. Righi

5279

The supply to Bologna via Cavallone is still

O.K.

HVB 10/6/45

Strada Maggiore 34

22 Giugno 1945

XXXXXXXXXXXXXX

B.465/141 R/z

Spett.
Società Emiliana Esercizi ElettriciP a r m a

Ci perviene soltanto oggi la Vostra del 12 corr. Bre. co, che riteniamo sorpassata dopo i colloqui del 15 corrente fra il Vo= stro sig. Consigliere Delegato e il sottoscritto, in relazione coi quali il 19 corrente Vi abbiamo trasmesso il fonogramma che qui trascriviamo:

"Ing. Müller - Parma - Sta bene consegna Modena 120 kV di elettro= tione potenza quanta a Bologna in ritiro dall'Emiliana. Nella "liquidazione detta energia sarà detratta da prelievo Emiliana- "P.to Ing. Righi".

Riteniamo pertanto sia già sistemata la questione nel senso che sulla linea Crevalcore-Bologna Voi manterrete a nostra dispo= zione una potenza di circa 5 000 kW alla tensione di 60 kV, che noi normalmente preleveremo secondo orario stabilito telefonicam= ente, con facoltà di prelevare anche fuori orario in casi di emergenza.

Distinti saluti

R

5278

Only to-day we are on hand of yours of the 12 th. inst, that we think surpassed after the conversations that have taken place the 15 th. inst. between your Managing Director and our undersigned, in relation to which the 19 th. inst. we have trasmitted you a telephonic message that is hereby transcribed.

"Ing. Müller Parma - It is all right to consign to Modena 120 kV "as much power as Bologna will take from Emiliana. In the liquidation the above mentioned energy will be deducted from the energy "withdrawn by the Emiliana-signed Ing. Righi".

We think conseguntly that the matter is settled in the sense that you will keep on the line Crevalcore-Bologna to our disposal a power of about 5 000 kW as a tention of 60 kV, that we will withdraw normally according to the time fixed by telefone, with faculty that we can withdraw also out of time in case of emergency.

Yours truly

5277

SOCIETA' EMILIANA DI ESERCIZI ELETTRICI
sede in Parma

Parma, 12 Giugno 1945

N. Bre
co

Spett. Società Bolognese di Eletticità

B o l o g n a
Strada Maggiore 34

Riscontriamo la pregiata Vs. D 464/452 R/z dell'8 corr.

Date le condizioni dei ns/ impianti siamo, purtroppo, costretti a confermarVi, l'impossibilità di proseguire l'alimentazione della Vs. rete a 60 kV sia da Modena che da Crevalcore.

La Stazione Edison di Reggio E., dove sono installate quattro unità da 18 000 kVA, ai primi dello scorso mese disponeva di uno di questi trasformatori, tre erano stati più o meno danneggiati.

Oggi funziona con due unità, un terzo trasformatore potrà essere utilizzato solo fra due settimane circa.

Delle cinque nostre centrali, in parallelo con la Edison, attraverso la detta Stazione, tre sono state escluse alla fine di aprile per gravi danneggiamenti subiti, le rimanenti due fanno servizio ridotto in conseguenza delle limitate disponibilità idriche del momento.

In tali condizioni facciamo fronte con difficoltà al fabbisogno della ns/ rete, la cui punta del mattino raggiunge i 40.000 kW, con tendenza ad aumentare, per il sempre più attivo funzionamento degli Stabilimenti delle Bonifiche e dei pozzi per irrigazione agricola.

Perciò nonostante la Vs/ più volenterosa disposizione alla collaborazione come abbiamo fatto fino ad oggi per aiutarVi nella difficile ripresa, ci troviamo ora, lo ripetiamo, nella impossibilità materiale di continuare la fornitura, ed i prelievi saltuariamente fatti dalla Vs. Stazione di Battiferro (anche senza preavviso), provocano gravi disturbi risentiti, oltre che dalla Vostra e nostra rete, da tutto il complesso servizio della Edison.

Siamo certi che Vi renderete conto della necessità della ns/ insistenza, e del ns/ rincrescimento di non poter mantenere l'aiuto finora datoVi, mentre confidiamo che giornaliero migliorie approntate ai Vs. impianti Vi permettano di fronteggiare la temporanea difficile situazione.

Distinti saluti

SOCIETA' EMILIANA DI ESERCIZI ELETTRICI
Il Consigliere Delegato
E.to Ing. Müller

5275

In reply to your letter D 464/452 R/z of the 8 th. inst.

Considering the condition of our plants, we are compelled to confirm you, that we are in the impossibility of continuing to feed the network at 60 kV either from Modena than from Crevalcore.

The Edison Station in Reggio Emilia where there are installed 4 units at 18 000 kVA, in the beginning of the last month one of those transformers was available, three had been more or less damaged.

To-day it is working with two units a third transformer may be used only within about two weeks.

Of our five centrals, parallell with the Edison through the same station, three have been excluded at the end of April for having suffered serious damaging, the other two are doing reduced service consequently to the limited hydric availability for the moment.

In such conditions we meet difficulty in feeding our network, whose peak consumption in the morning reaches to 40 000 kW, with tendence to increase, for the always more increasing activity of the working of the work shops for land improvement and of the wells for agricultural irrigation.

In spite of our most willing disposition to collaborate as we have done up to to-day to help you in such a difficult renewal, we repeat, that we are now, in the impossibility of continuing to supply and the withdrawals made irregularly by the station in Battiferro (also without notice) provoke serious troubles, besides from yours and our network from all the Edison service.

5275

We are faithful you will consider the necessity of our insistance and our regret for not being able to continue helping you as we have done, while we hope that daily improvments brought to your plants will permit you to meet the temporary difficult situation.

Yours truly

RECEIVED

26 JUN 1945

FIELD REPORT-21 June 1945

SAN VIOLA - RIFREDI 130 KV line

FF SS

NO 446 1000000 000

Eng. Div. HVB
P

1. Inspection of line from S. Viola to crossing with 120 KV Tre Madonna to Forli line.
 - a. The double line from S. Viola north to point where Imola and Riferdi lines branch is in good condition except for one tower down.
 - b. The line from above branch to the Forli crossing is very nearly all destroyed. Out of 65 towers a total of 38 are down. Most of the wire and insulators as well as damaged towers have been salvaged for use elsewhere.
2. The S. Viola - Imola line parallels the above line for a distance of 40 towers and can be repaired over this distance by replacing two spans of wire and repairing three towers. The remaining line to the Forli crossing consists of 23 towers of which 16 are down.
3. Minimum repairs including maximum use of S. Viola - Imola line would necessitate repairs to approximately 20 towers and replacing wire and insulators over an equal distance.
4. It is believed that present plans of using Tre Madonna - Forli line to crossing point (involving repairs to seven towers) are the most feasible.

Clarence S. Wilcox
Major Ord.
Field Engineer

DISTRIBUTION:

Lt Col Lapper
/ Lt Col Parker
Major Barry
Lt Col Spann
Major Wilcox

5274

111 RECEIVED

22 JUN 1945

FIELD REPORT - 19 June 1945

HQ AMG - LUGANO - A REG.

FERRARA
SEPLt Col Parker
(PWC) 143
P

1. The 4000 KVA, 50/10 KV air cooled outdoor type transformer to be moved from San Lucca to Codigoro is expected to be ready for movement 25 June. Oil filtering is now in progress.

2. The 6000 KVA, 50/15/7-5 KV air cooled outdoor type transformer to be moved from Zona Industriale to San Lucca has been removed to crane house and tackle is being put in place. Expected date of movement 26 June 1945.

Clarence S. Wilcox
Major Ord
Field Engineer

DISTRIBUTION:

Lt Col Lapper
Lt Col Parker
Major Barry
Lt Col Spann
Major Wilcox

5273

Società Bolognese di Elettricità

SOCIETÀ PER AZIONI CON SEDE IN BOLOGNA

Capitale L. 10.000.000 interamente versato

Telegrammi: BOLOGNESE-BOLOGNA
Telefono interc. 21668
Casella Postale N. 225
C.P.C. Bologna 16101

Strada Maggiore 34

Bologna, li

19 Giugno 1945

~~XXXXXXXXXXXX~~

DA CITARE
NELLA
RISPOSTA

Prot. N. B. 465/ *54* R/z

Ufficio

ALLEGATI N°

To Capt. Best
A. M. G.
Via della Zecca 1
B o l o g n a

Per i tre trasformatori che abbiamo presso la sottostazione del Battiferro in corso di riparazione e di montaggio occorrono complessivamente 26 tonn. di olio; e precisamente:

- 1 - per il trasformatore da 5 000 kVA ^{50/60KV} di costruzione G.E.Co. occorrono 9 tonn. di olio; ^{60/50KV olio Prof. Bolognese}
- 2 - per il trasformatore da 10 000 kVA ^{15/5KV} di costruzione C.G.E. occorrono 11 tonn. di olio; ^{50000 / 100000 slamey Bolognese}
- 3 - per il trasformatore da 6 000 kVA ^{50/3KV} di costruzione O.T.E. occorrono 6 tonn. di olio. ^{50/3000}

L'ordine di precedenza per la consegna dell'olio è quello suindicato, ed è urgente per il n.1, mentre per il n.2 e il n.3 è sufficiente ricevere l'olio alla fine del prossimo mese.

Distinti saluti

SOCIETÀ BOLOGNESE DI ELETTRICITÀ
Il Direttore Tecnico

A. Righi
5270

Translation

For the three transformers, that we have at the Battiferro substation and which are being repaired and set up, a total of 26 tons of oil are necessary; and exactly:

- 1 - for the 5 000 kVA transformer ^{50/60KV}, built by G.E.Co., 9 tons of oil are necessary;
- 2 - for the 10 000 kVA transformer ^{15/5KV}, built by C.G.E., 11 tons of oil are necessary;
- 3 - for the 6 000 kVA transformer ^{50/3KV}, built by O.T.E., 6 tons of oil are necessary.

The order of priority for delivering the oil is the above mentioned one and it is urgent for N.1, while for N.2 and 3 it will be sufficient to receive the oil at the end of the next month.

Yours faithfully.

SOCIETÀ BOLOGNESE DI ELETTRICITÀ
Il Direttore Tecnico

A. Righi

50/60KV
15/5KV
50/3KV

HEADQUARTERS EMILIA REGION
 ALLIED MILITARY GOVERNMENT
 PUBLIC WORKS AND UTILITIES DIVISION
 APO 394

REF. :

SUBJECT: Electrical Material for Sewage and Water Systems= 18 June 1945
 TO : Bologna City
 : Bolognese Co

Reference your request, and also a request from Soc Naz per Gas e Acquadotti, for materials for electric lines in connection with sewage and water systems.

Copper .

Lt Col Parker has instructed Trafilerie e Laminatoi di metalli, Villa Cancina near Brescia to prepare the following quantities of hard drawn copper wire:

3 mm dia	300	Kg
4 " "	47	"
5 " "	85	"
6 " "	7,150	"
7 " "	363	"
8 " "	11,105	"

This material should be ready for collection about 22 June. Will you make the necessary financial agreements. In this connection Capt Best will be returning to Milano early next week and could convey a letter to Eng Salce or Trafilerie e Laminatoi.

Poles .

C.I.L.A. Via dei Bossi 3, Milano have poles available in Bolzano province.

Insulators .

A.M.G. sources have been unable to locate these, but small quantities can be obtained privately.

Iron Stock.

Attached is a letter from A. Bagnagatti, who is able to supply this material.

W M SPANN
 Lt Col AUS
 Regional Engineer 5271

MEETING WITH FF SS - 18 June 1945
 =====

The office of the Electrification Dept is Via Nosadella 51, Bologna, and Ing. Mazzoni is Capo Ufficio I.E.S.

It was learned that Major Kubale, in his recent visit, had stated the rehabilitation of the electric services from Florence to Trento was Priority I, and he is moving Lt Chance from Prato to Bologna to accelerate the work.

The FF SS are already working on the below mentioned 120 KV lines: S. Viola - Grizzana

Crevalcore-Ferrara (For supply to Montecatini factory)

Crevalcore-Piacenza

These lines are not very badly damaged, except for the first 15 Km from S. Viola to Grizzana, where 34 towers are down.

It is anticipated the service may be working by the end of August, taking power from Edison at Rubiera or Parma. The ultimate intention is to take power from the FF SS Power Station at Bressanone, north of Bolzano.

It is understood that the FF SS sub-stations will operate at 120 KV and 42 or 50 cycles.

HVB

H Best
 Capt RA

DISTRIBUTION:

Lt Col Lapper
 Lt Col Parker
 Lt Col Spann
 Major Barry
 Major Wilcox

5270

RECEIVED

22 JUN 1945

10 AMB BOMBARDIA REG.

FIELD REPORT - 18 June 1945

CONFERENCE VENICE
S A D ELt Col Parker HQ
(PWA) P

1. Object of conference
 - a. Provide additional capacity for Bologna.
 - b. Utilize 120 KV transformer at Portomaggiore.
 - c. Decide on transformer movement in Emilia Region.
 - d. Coordinate activities of the SBE, SER, and SEP companies.

2. Discussion.

a. Present capacity at Bologna limited by 15,000 KVA. 120 KV transformer at Tre Madonne. SBE manager desires that another 15,000 KVA unit be installed. Unit available at Battaglia now being used. Unit at Camporosso cannot be feasibility moved until railroads are in operation. Bologna system to be augmented by 5000 KVA, 60 KV transformer from Bussolengo which will be in operation within one week. Additional 10,000 to 15,000 KVA can be made available at 50 KV from Portomaggiore by isolating the (120 KV) Nova - Palvello - Portomaggiore line and operating it at 50 KV. This can be done in about two weeks time.

b. Portomaggiore 15,000 KVA, 120 KV transformer to be repaired, needs bushing and cooling system. At later date, possibility three months, 15,000 KVA, 120 KV unit from Battaglia can be installed. With 30,000 KVA capacity available at Portomaggiore the Novalline can be operated at 120 KV to supply both Bologna and Forli at 50 KV.

c. Present transformer movement contemplated in Emilia

Region:	From	To	KVA	KV	Date
	San Lucca	Codigoro	4000	50/10	June
	Zona Industr.	San Lucca	6000	50/15/7=5	June
	San Lucca	Portomaggiore	3000	50/15/7=5	June
	Bussolengo	Battiferro	5000	60/50	July

d. Engineer Forli, SADE company, is to be stationed in Bologna to coordinate subsidiary companies. Decision will be reached next week as to whether 6000 KVA, 50/15 KV transformer for FORLI will be moved from Bologna or Ferrara.

Clarence S. Wilcox
Major Ord
Field Engineer

5269

DISTRIBUTION:

Lt Col Lapper
Lt Col Parker
Major Barry
Lt Col Spann
Major Wilcox

✓
11/9
MILAN OFFICE
ELECTRICAL DIVISION
Public Works & Utilities Sub-Com.
ALLIED COMMISSION
APO 394

P
18 June 1945

Subject: Mine clearance along electric transmission lines

To : Mine Clearance Officer Emilia Region
(Attention Major Reaker)

We are informed by the Edison Electrical Coy, Foro Bonaparte, Milano, that there is a mine field along the overhead line running west from Ligenchio MR L.0030.

There is no immediate urgency on this line, but Edison would like to train some of their personnel in mine lifting, and suggest setting up a school in the Parma area, if instructors can be furnished. Edison have a subsidiary Coy (Emiliana Electricity Coy) who have an office in Parma who might be able to assist in finding accommodation.

It would be appreciated if assistance in inaugurating such a school could be given.

Major C. Wilcox, who represents this Division in Emilia Region, can be contacted in Bologna P.W. & U. office.

HVB
George F. Parker, Lt Col Inf
Chief Milan Office Elect Div
P W & U

Copy to:
Major Wilcox

5268

FIELD REPORT- 17 June '45

RIFREDI = BOLOGNA 120 KV Line

Ferrovie Stato

Contacted Lt Cooper 34 E & M Platoon and Lt Ballantyne 29E&M Platoon located at Riveggio and Murazzo respectively (MR.L 7020).

Both these Platoons are working on the line under Nol District, and are employing about 280 civilians.

The intention is to repair a 120 KV line from Florence to Bologna, and reconnaissance has shown it easiest to "Jumper" the F.S. line to the S A D E line outside Bologna at point X on sketch, and then terminate at Tre Madonne.

This will entail a total of 101 towers to be re-created, of which 49 are completed and 11 are in hand.

The portion Rifredi - Grizzana will be completed 19 June, and it is understood a mobile sub-station will be installed at Grizzana to supply the R/R line up to, and including, the tunnel.

Steel for repairs is being obtained from damaged towers between point X and Trebbio. New cable is available in the F.S. stores at Milan.

A.C. are assisting in obtaining spanners in metric sizes and also bolts and nuts.

The line runs through many mine fields and a South African Bomb Disposal Platoon is lifting mines. Their "Flail Tank" was badly damaged recently by a heavy explosion and work is proceeding slowly until it is repaired or replaced.

Lt Cooper who has been in charge of work since the beginning, estimates that under favourable conditions it will require a further 4 months for completion. Favourable conditions includes additional mine clearing facilities from Allied sources.

H.G. Best

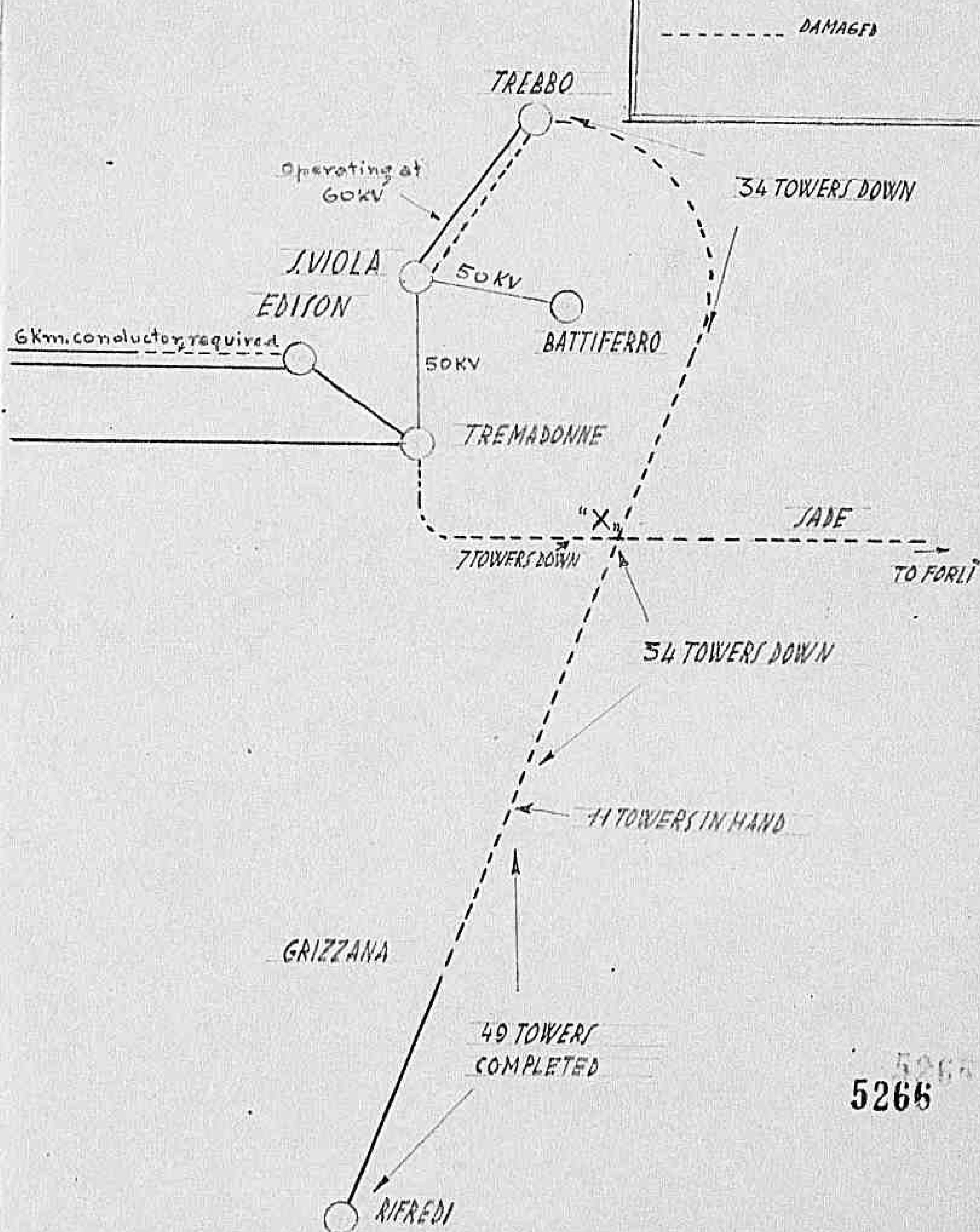
H G Best Capt RA

DISTRIBUTION:

Lt Col Lapper
Lt Col Parker
Lt Col Spann
Major Barry
Major Wilcox

5267

SKETCH ATTACHED TO REPORT RIFREDI-BOLOGNA
120KV LINE
17 JUNE '45



5266

111
FIELD REPORT - 16 June 1945
=====

MODENA - ITALY

1. The truck formerly in use by the advanced section, Florence at the Leghorn steam plant had been removed by the 5th Co, 1st Truck Bn, Alcom. This 2 1/2 tons 6 X 6 truck No. 4131293 was located with the first trucking company at Modena. The truck belongs to the Public Works and Utilities Subcommittee and was removed by the undersigned from the custody of the above company and brought to the Emilia Region garage at Bologna for further disposition.

2. It is recommended that the vehicle be temporarily assigned for use to the reconstruction team working out of the Emilia Region for a matter of several weeks. The use of this vehicle is urgently needed for the reconstruction of the Portomaggiore - Forlì 50 KV line.

3. In the above connection, tentative arrangements have been made with the 22th trucking company, 3rd Bn located at Bologna for servicing of this vehicle while it remains in this area.

Clarence S. Wilcox
Major Ord.
Field Engineer

DISTRIBUTION:

— Lt Col Lapper
— Lt Col Parker
• Major Barry
Lt Col Spann
Major Wilcox

5265

413

191

FIELD REPORT - 15 June 1945
 =====
 Predare Hydro Station

Ligonchio " "
 Edison Co.

1. Ligonchio Hydroplant.

a. Generating equipment.

- (1) One 2,050 KW, 7000 volt, 50 cycle unit operating at 180 head and 1500 liter / sec water capacity.

b. Frequency changer.

- (1) 7000 KW 6500 volt 42 to 50 cycle unit direct connected to 8500 KVA 6000/7000 volt 16 2/3 cycle generator operating at 250 meter head and 3000 liter / sec. water capacity.
 (2) A second unit similar to above but out of service because of burnt rotor on frequency changing unit. Expected completion date for repairs is September 1945.

c. Transformers.

- (1) Two 10,000 KVA, 60/6 KV, 16 cycle Units in service.
 (2) Two 9,000 KVA, 60/6 KV, 42 cycle units damaged. One has sustained electrical damage, the other war damage. (Machine gunned)
 (3) Three 10,000 KVA, 130/70/7KV units not in service. Two units need oil filtering, one has suffered war damage (machine gunning)
 (4) One 15,000 KVA, 130/7 KV unit damaged by war (machine gunned)

d. Synchronous condenser.

- (1) One 15,000 KVA, 6400/7400 volt, 50 cycle unit.
 (2) One 9,000 KVA, 6000/7200 volt, 50 cycle unit.

2. Predare hydroplant.

a. Frequency changers.

- (1) Two 4200 KW, 7000 volt, 42 to 50 cycle units direct connected to turbine operating under 240 meter head with 2500 liter / sec capacity.
 (2) Two 6300 KW, 6000/7200 volt, 50 to 42 cycle units, one of which is direct connected to turbine operating at 240 meter head with 3800 liter/sec capacity.

b. Motor generator set.

- (1) One 42 cycle synchronous motor running an 8,500 KVA, 6000/7000 volt, 16 2/3 cycle generator direct connected to turbine operating at 240 meter head using 5280 liters per second water.

c. Transformers.

- (1) Two 9000 KVA, 50/30/6 KV, 42 cycle units

- 2 -

- (2) Two 9000 KVA, 70/40/6 KV, 50 cycle units
- (3) Two 6,000 KVA, 50/30/6 KV, 42 cycle units
- (4) Two 6,000 KVA, 70/40/6 KV, 50 cycle units
- (5) One 9,900 KVA, 70/7 KV, 16 2/3 cycle unit

Clarence S. Wilcox

Major Ord.

Field Engineer

DISTRIBUTION:

Lt Col Lapper

Lt Col Parker

Major Barry

Lt Col Spann

Major Wilcox

5263

RECEIVED

21 JUN 1945

HQ Army Commanding RIG.

FIELD TRIP - 14 June 1945

Forli - Portomaggiore 50KV line

S E R

1. The Portomaggiore - Argenta line is complete except for six spans of wire. Between Argenta and Cotignola 50 spans of wire have been replaced. Between Cotignola and Forli one tower has been replaced. 82 towers remain to be repaired.
2. Army engineers have designed a 7 foot section to repair tower bases. These standard sections are under quantity production in Army workshops.
3. Mine removal unit has reported to Forli but has not as yet commenced work.
4. Three portable 5/8" punch presses similar to the type used by UNES company are needed.

Clarence S. Wilcox
Major Ord.
Field Engineer

DISTRIBUTION:

Lt Col Lapper
Lt Col Parker
Major Barry
Lt Col Spann
Major Wilcox

5262

This matter has now been settled between the 2 companies
and about 5,000 KW has been agreed.

WPD: 21 June 45

5261

Società Bolognese di Elettricità

SOCIETÀ PER AZIONI CON SEDE IN BOLOGNA

Capitale L. 10.000.000 interamente versato

Telegrammi: BOLOGNESE BOLOGNA
 Telefono interc. 21668
 Casella Postale N. 225
 C.P.C. Bologna 16101

Strada Maggiore 34

Bologna, li

13 Giugno 1945

~~VXXXXXXXXXXXX~~

DA CITARE
 NELLA
 RISPOSTA

Prot. N.
 Ufficio

B. 464/

R/z

ALLEGATI N°

6

To Major Wilcox
 Via della Zecca 1
B o l o g n a

Come intesi, Vi trasmettiamo copia della corrispondenza
 intercorsa con la Società Emiliana Esercizi Elettrici, in me-
 rito alla alimentazione della nostra zona con corrente a 60 kV.

Distinti saluti

SOCIETÀ BOLOGNESE DI ELETTRICITÀ
 Il Direttore Tecnico

*Alighieri*Translation

As agreed we forward a copy of the mail with Società
 Emiliana Esercizi Elettrici, concerning the feeding of our
 area at 60 KV.

Many greetings

SOCIETÀ BOLOGNESE DI ELETTRICITÀ
 Il Direttore Tecnico

Alighieri

5260

Say 5,000 KW max
 Bussolengo 50/60 KV. transformer 5,000 KVA

Società Emiliana di Esercizi Elettrici
Electrical Services Emilia Company

Parma May 29 Th, 1945

Registerex letter

To Electrical Company of Bologna
B o l o g n a

Our staff inform us that, without any notice, by your Power Station "Battiferro" power is at intervals taken by way of the State Rail roads emergency line which derives from our 60 kV line Crevalcore-S. Pietro.

We hold for certain that, with the resumption of the 130 kV service from Modena and the re-establishment of the Edison lines, you are able to provide for your service, without using our chance feeding, which had been agreed upon only for emergency time but which really at present interferes with our service and endangers it.

We beg you therefore to make agreements with us for the disconnecting of the State Rail roads line Crevalcore-Bologna from our 60 kV line Crevalcore-S. Pietro in Casale.

If you, because of needs that cannot be disregarded, thought of being obliged to keep still for some time, this connexion, we beg you to give an exact order, so that it may not be used without a previous and precise agreement with our staff.

Awaiting to hear from you

We remain

The managing Director

5259

SOCIETA' EMILIANA DI ESERCIZI ELETTRICI

N. Bre

Parma 29 Maggio 1945

co.

Raccomandata

Spett. Società Bolognese di Elettricità

B o l o g n a

Il nostro personale ci comunica che, senza alcun preavviso, dalla Vostra Stazione di Battiferro viene effettuato saltuariamente ritiro di energia attraverso la linea di soccorso delle FF.SS., derivata dalla nostra linea 60 kV Crevalcore - S. Pietro.

Riteniamo per certo che con la ripresa del servizio a 130 kV da Modena e la riattivazione delle linee Edison siate in grado di sopperire al Vostro servizio, senza ricorrere alla nostra alimentazione di fortuna, la quale era stata concordata per il momento di emergenza, ma che in realtà oggi disturba e compromette il nostro servizio.

Vi preghiamo pertanto di voler prendere con noi accordi per il distacco della linea FF.SS. Crevalcore - Bologna dalla nostra linea 60 kV Crevalcore - S. Pietro in Casale.

Se per imprescindibili necessità riteneste di dover mantenere, ancora per qualche tempo, tale collegamento, Vi preghiamo di dare tassativo ordine che non venga usato senza preventivo e preciso accordo col nostro personale.

In attesa Vi salutiamo.

SOCIETA' EMILIANA DI ESERCIZI ELETTRICI

Il Consigliere Delegato

F.to Ing. Müller

5258

June 13 Th 1945

Registered letter

To Electrical Services Emilia Company

P a r m a

We are in receipt of your registered letter Bre/Co of the 29 th May, only to-day. It has crossed with our B.464/452 R/z of the 9 th inst which was delivered to you by Col. Parker, and which is here-on firmed- 120 kV power feeding of our zone has a limitation in the power of the sole available Transformer, that is only 15 000 kVA.

The maximum of load surpasses the 15 000 kW and is ever increasing. We have already fixed some limitations in our customer 's consumptions, but it is impossible for us to give up the 60 kW power deduction, wether in normal conditions, or, and the more, in the case the 120 kV feeding had to stop.

From Venetia, through the restored only line of 50 kV: Rovigo-Ferrara-Bologna, it is possible to get but a very limited amount of power that will be ever decreasing, as the distribution zones to south of the Po, will be re - established.

The "Edison" is now providing to put again in working order at least one of the two transformers which are in its box of Bologna; ~~we~~ we are soliciting the Allied ⁵²⁵⁷ ~~5257~~ so that the transformer, a twin of the one at present working, may be carried to our inner station "Tre Madonne" But both of these solutions will request some months: meantime your 60 kV supplying is necessary~~x~~, wether as

integration or ~~xxxx~~ as reserve.

We give immediately orders so that 60 kV power deduction may not be effected without any notice to your staff: yet you will be Kind enough to consider the need that emergency supply be immediately rendered available when 120 kV feeding will be missing and will not be therefore necessary for your staff. To request time by time the permission to your service chief director.

Yours truly.

5256

Strada Maggiore 34

13 Giugno 1945

XXXXXXXXXXXXXXXXXX

RACCOMANDATA

B.464/

R/z

Società Emiliana Esercizi Elettrici

P a r m a

Ci perviene oggi soltanto la Vostra raccomandata Bro/co. del 29 Maggio. Essa si è incrociata con la nostra B.464/452 R/z del 9 corr., che Vi fu consegnata dal sig. Col. Parker e che qui con fermiamo.

L'alimentazione della nostra zona a 120 kV trova una limitazione nella potenza dell'unico trasformatore che abbiamo e che è di soli 15 000 kVA.

La punta del carico sorpassa i 15 000 kW ed è in continuo aumento. Abbiamo già imposto limitazioni nei prelievi dei nostri utenti, ma non ci è possibile rinunciare a prelevare energia a 60 kV, sia in via normale, sia e tanto più in caso che avesse ad interrompersi l'alimentazione a 120 kV. Dal Veneto, mediante la nostra linea a 50 kV riattivata Rovigo - Ferrara - Bologna, non ci è possibile prelevare se non una potenza assai limitata, che andrà sempre riducendosi di mano in mano che si riattiveranno zone di distribuzione a sud del Po.

La situazione non potrà migliorare fintanto che non venga messo in servizio a Bologna un altro trasformatore con primario a 120 kV.

La Edison si sta occupando per rimettere in efficienza uno almeno dei due trasformatori della propria cabina di Bologna; noi sollecitiamo i Comandi alleati perchè venga trasportato nella nostra sottostazione delle Tre Madonne il trasformatore gemello di quello ora in servizio.

Ma entrambe queste soluzioni richiederanno qualche mese: nel frattempo la Vostra fornitura a 60 kV, sia per integrazione, sia come scorta, ci è necessaria.

Diamo subito disposizioni che prelievi a 60 kV non siano effettuati senza preavviso al Vostro personale: vorrete tuttavia tener conto della necessità che la fornitura di soccorso sia subito attivata quando ci venga a mancare l'alimentazione a 120 kV; non sia quindi necessario che il Vostro personale chieda di volta in volta.

5255

2

^a
xx Società Emiliana Esercizi Elettrici
del 13 Giugno 1945

volta autorizzazione al Vostro dirigente centrale del ser-
vizio.

Distinti saluti

5254

June 9 th 1945

To
Società Emiliana Esercizi Elettrici

P A R M A

To your telephonic message, arrived on yesterday morning,
and so composed:

"We are in the impossibility of continuing the supplying
"from Crevalcore and Modena.

"We beg you to see to that, from to morrow 7 th June,
"every power deduction from our lines will be stopped.

"We are waiting for your assurance.

"Sign.Eng. Forcaciari"

We have replied:

"Suspension of supplying from Crevalcore and Modena does

"mean for us the impossibility of going on in our service.

"I beg to defer this at least to next week and to confirm
your necessary collaboration. Sign.Eng. Righi"

Trusting you intend to continue and intensify your colla-
boration to help us to solve the numerous and weighty problems
w~~h~~ which make so difficult the resumption of service in
our zone, we beg you to give up the suspension of the 60 kV
emergency supply from Modena and Crevalcore, a supply
which is necessary to assure although reduced, the service
in our zone.

The service is at present committed to a sole transformex
with a 120 kV primary with the power of 15 000 ⁵²⁵³ Our
midday maximum reaches and surpasses 15.000 kW in Bologna
and 3.500 kW for Ferrara. The latter town has been the
day before yesterday connected by means of a 50 kV line
with Venetia; it is there fore possible, in normal condi-
tion, to reduce at a minimum our 60 kV power deduction,

except the case of interruption on the line which at present is feeding Ferrara.

According to the need of keeping still for a not short time the 60 kV power connexion with you, and in full agreement with the A.M.G. we are disposing just in these days the removal from Bussolengo of a 5000 kVA, ratio 60/50 Transformer to our power house at Battiferro.

In a bout ten days it will be in service and then we shall be able of making a better use of the transformers there existing, which have a 50 kV primary coil.

We beg you to give us assurance that you will stand also in future in your 60 kV emergency service, wich we cannot give up until in our zone is installed a second Transformer with a 120 kV primary.

Copia

9 Giugno 1945

B.464/452/ R/z

Spett. Società Emiliana Esercizi Elettrici

P A R M A

A Vostro fonogramma, giuntoci iermattina, così concepito:

"Siamo nell'impossibilità di proseguire fornitura da Crevalcore
 "e da Modena. Preghiamo provvedere affinché da domani 7 giugno
 "venga sospeso ogni vostro prelievo energia dalle nostre reti.
 "Attendiamo assicurazione- F.to Ing. Tomaciari"

abbiamo risposto:

"Sospensione fornitura da Crevalcore e da Modena significa per
 "noi impossibilità mantenere servizio. Frego rinviare almeno
 "alla settimana prossima e confermare vostra necessaria colla-
 "borazione - F.to Ing. Righi"

Nella fiducia che Voi vogliate continuare ed intensificare
 la Vostra collaborazione per aiutarci a risolvere i molti e gra-
 vi problemi che rendono tanto difficile la ripresa della nostra
 zona, Vi preghiamo di rinunciare alla sospensione della fornitu-
 ra di soccorso a 60 kV da Modena e da Crevalcore, che ci è neces-
 saria per garantire il pur ridotto servizio della nostra zona.

Esso è attualmente affidato ad un unico trasformatore con pri-
 mario a 120 kV della potenza di 15 000 kVA. La n/ punta del mez-
 zogiorno raggiunge e sorpassa i 15 000 kW per Bologna e i 3500 kW
 per Ferrara. Quest'ultima città è stata l'altro ieri allacciata
 con una linea a 50 kV al Veneto; è pertanto possibile, in condi-
 zioni normali, ridurre al minimo i n/ prelievi a 60 kV, salvo il
 caso di interruzioni sulla linea che ora alimenta Ferrara.

In relazione con queste necessità di mantenere ancora per un
 tempo non breve il collegamento a 60 kV con Voi, e in pieno accor-
 do con l'A.M.G., noi stiamo provvedendo in questi giorni al tra-
 sferimento da Bussolengo di un trasformatore da 5 000 kVA, rappor-
 to 60/50 kV, alla nostra centrale del Battiferro. Fra una decina
 di giorni sarà in servizio e allora potremo meglio utilizzare i
 trasformatori ivi esistenti, i quali hanno il primario avvolto
 per 50 kV.

Vi preghiamo di un cenno di assicurazione che farete anche per
 l'avvenire il servizio di soccorso a 60 kV, al quale non possiamo
 rinunciare fintantoche non sia installato nella n/ zona un secondo
 trasformatore con primario a 120 kV.

Distinti saluti

SOCIETA' BOLOGNESE DI ELETTRICITA'
 Il Direttore Tecnico

F.to Ing. Righi

File Bologna

P 143

FIELD TRIP = 7 June 1945

SAN LUCCA

S.E.P.

1. Arranged with R E M E recovery unit in Ferrara to pick up trailer at San Lucca sub-station and travel to Bussomengo on 8 June 1945 . 1-6000 KVA 60/50 KV transformer is to be loaded and brought to Bologna Battiferro Station on 9 June 1945.

Clarence S. WILCOX

Major Ord.

Field Engineer

DISTRIBUTION:

Lt Col Lapper
Lt Col Parker
Major Barry
Lt Col Spann
Major Wilcox

5250

File Bologna

P
HV

FIELD TRIP - 6 June 1945

F O R L I

S E R

1. Contacted Lt Fallows regarding Forli - Portomaggiore line. Mine clearing squads have not shown up as yet although a platoon of 12 men is expected at any time. Work continues salvaging copper and insulators from adjacent unserviceable lines.

Clarence S. WILCOX

Major Ord.

Field Engineer

DISTRIBUTION:

Lt Col Lapper
Lt Col Parker
Major Barry
Lt Col Spann
Major Wilcox

5249

File Bologna

PMB

FIELD TRIP-5 June 1945

BATTIFERRO SUB-STATION
TRE MADONNE SUB-STATION
S.B.E.

1. The present load at Battiferro approaches 15,000 KVA. The station is fed from Tre Madonne by two 50 KV lines; a line also continues to Ferrara. In service are 3=6000 KVA 50/3 KV 1=6,000 KVA 50/15 KV ; and 1=4000 KVA 15/3 KV transformer. Two 6,000 KVA synchronous condensers also operate from the 3 KV buss. 1=10,000 KVA 50/15 KV unit damaged by mines. Internal water cooling coils as well as windings on one phase must be replaced. 1=6000 KVA 50/3 KV unit badly damaged by mines. Coils, case and air cooling radiator need repair. 1=6000 KVA 50/15 KV unit needs transformer oil to be placed in service.

2. The Tre Madonne station is fed by the Edison and Ponale lines at 120 KV. One three winding transformer rated at 15,000 KVA 120 KV, 15,000 KVA = 50 KV and 10,000 KVA = 15 KV is in service feeding the Battiferro sub-station. This station is up to capacity load.

3. A 60 KV line from Crevalcore has been topped into Battiferro. Installation of a 6000 KVA 60/50 KV transformer now at Bussolengo will increase the load capacity for Bologna.

DISTRIBUTION:

Lt Col Lapper
Lt Col Parker
Major Barry
Lt Col Spann
Major Wilcox

Clarence S. WILCOX
Major. Ord.
Field Engineer

5248

MEMORANDUM FOR MAJOR WILCOX OF A M G - Bologna 5/6/45
=====

Rehabilitation of Soc. Bol. Elettr. , Azienda Elettr. Padana
and Soc. Elettr. Romagnola Plants.

During the meeting on Friday, 1 June 1945, at Società Bolognese, Maj. WILCOX charged Ing. Modé, who had to go on the next day to Venice, to take from Ing. Marin of Soc. Adriatica di Elettr. the following informations:

- 1) For rebuilding the 50 KV lines from Argenta=Cotignola Forlì, which belong to Soc. Elettr. Romagnola, is it possible undo Giais=Udine or Udine=Opicina line?

How long needs and which helps are necessary for the undoing works?

Answer=

They have ascertained that the best resolution consists in undoing the part from Udine to Villesse of the Udine Monfalcone line, which is 28 Km. length and therefore sufficient.

Copper of this line is 65 square mm. (area of the cross-section) , on the contrary the lines which are to rebuild, were 50 sq. mm.

For complete rebuilding are needed about two months and it is necessary that A.M.G. allow a 3 Tons truck , a 7 Tons one and possibly a trailer.

- 2) How long needs to change from 50/60 KV to 50/15 KV

1) For rebuilding the 50 KV lines from Argenta-Cotignola Forlì, which belong to Soc. Elettr. Romagnola, is it possible to undo Gais-Udine or Udine-Opicina line? How long needs and which helps are necessary for the undoing works?

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Copper of this line is 65 square mm. (area of the cross-section) , on the contrary the lines which are to rebuild, were 50 sq. mm.

For complete rebuilding are needed about two months and it is necessary that A.M.G. allow a 3 Tons truck, a 7 Tons one and possibly a trailer.

2) How long needs to change from 50/60 KV to 50/15 KV one of the 2 ~~XXX~~ C.G.E. outdoor water cooling, 5000 KVA power transformers, which to be carried to Forlì? Which is the weight of each of these transformers?

Does the 50 KV disconnecting switch exist?

5247

Answer.

Ing. Marin will provide to send there a technician to get the necessary time for modification known.

The weight of each above transformer is 25.5 Tons divided as follows:

Core and tank 15.5 Tons; oil 10 Tons

The disconnecting switch exists.

- 3) When man will be able to have 50 cycles electric power from Soc. Idro-elettrica Medio Adige-Sima power stations at Bussolengo and Chievo in Verona Province?

Answer

Man will be able to have 50 cycles electric power when the dam will be repaired. This work will probably be finished next winter's end.

- 4) May Adriatica give some of its cars in order to be used for rehabilitation of plants in South Po River area?

Answer.

Adriatica has not disposable cars ? Therefore , as we have already said to Maj. WILCOX, we shall ask him for obtaining the needed cars in another way.

=====

Bologna

FIELD REPORT = 4 June 1945

FERRARA and PORTOMAGGIORE

S.E.P.

1. Eng Zannini of the Padana electric Company was contacted in Ferrara. He furnished the following completion schedule of transmission lines.

Rovigo - Ferrara	50 KV line	4 June 1945
Palvello-Coccanile	120 KV line	(now operating at 10KV)
Coccanile-Portomaggiore	120 KV line	12 June 1945
Portomaggiore-Argenta	50 KV line	(now operating at 10KV)
Ferrara-Portomaggiore	50 KV line	12 June 1945

These proposed schedules may be held up due to lack of copper and oxygen. Arrangements have been completed with the Ferrara Synthetic Rubber Company to start production of oxygen on next Monday. The only present supply of copper is through stripping other unused lines.

2. Ferrara Sub-Station.

a) San Lucca. This station is connected at 50 KV to both Bologna and Rovigo. Two 3000 KVA 50/15/7.5 KV transformers are in service; present load is around 3000 KVA.

b) Zona Industriale. This station is equipped with two serviceable 6000 KVA 50/15/7.5 KV transformers. They are not in use at present as there is no industrial load.

c) It is contemplated to remove one 6,000 KVA transformer from Zona Industriale and install it at San Lucca. One of the 3,000 KVA units now at San Lucca will then be moved to Portomaggiore.

d) A 4,000 KVA 50/10 KV transformer is now being repaired at San Lucca. It will be ready in one week to be returned at Codigoro. Motor transportation is being arranged in Ferrara.

3. Portomaggiore Sub-Station.

Originally contained 2 - 15,000 KVA 120/50 KV transformers. One unit has been badly damaged by an antitank rocket. The other is in good condition except for broken bushing-cooling systems for both units are destroyed.

Two 2,000 KVA 50/15 KV transformers were destroyed by fire. One 3,000 KVA 50/15 KV transformer is badly damaged by mines but may be repairable. The 80 Ton crane is complete except for shaft for installation. Work is in progress at the station.

120 KV line (now operating at 10KV)
 12 June 1945
 50 KV line (now operating at 10KV)
 12 June 1945

These proposed schedules may be held up due to lack of copper and oxygen. Arrangements have been completed with the Ferrara Synthetic Rubber Company to start production of oxygen on next Monday. The only present supply of copper is through stripping other unused lines.

2. Ferrara Sub-Station.

- a) San Lucca. This station is connected at 50 KV to both Bologna and Rovigo. Two 3000 KVA 50/15/7.5 KV transformers are in service; present load is around 3000 KVA.
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3. Portomaggiore Sub-Station.

Originally contained 2 = 15,000 KVA 120/50 KV transformers. One unit has been badly damaged by an antitank rocket. The other is in good condition except for broken bushing-cooling systems for both units are destroyed.

Two 2,000 KVA 50/15 KV transformers were destroyed by fire. One 3,000 KVA 50/15 KV transformer is badly damaged by mines but may be repairable. The 80 Ton crane is complete except for chain control. Work is in progress at the 50 KV sub-station to provide for installation of the 3,000 KVA unit from Ferrara. 15 KV switching gear has been salvaged. 50 KV circuit breakers will be brought from Ferrara.

Clarence S. Wilcox
 Major Ord.
 Field Engineer

DISTRIBUTION:

— Lt Col Lapper
 Lt Col Parker
 Major Barry
 Lt Col Spann
 Major Wilcox

Bole 2/18

FIELD REPORT 2 JUNE 1945

143

P

FORLI' SUB - STATION

S. E. R.

1. Eng. Tazzari of the Romagnola Company was contacted at Forli. He is to provide laborers for repairs to Forli-Cotignola 50 KV line. Lt. Fallows of No.1 District is furnishing transport. Work to commence Monday morning.

2. The Forli Sub-station was very badly damaged by mines. 20,000 KVA 130/50 KV and 25,000 KVA 130/50 KV transformers were completely destroyed. Three 3,000 KVA 50/15 KV transformers were badly damaged. The core from one of these latter may be repaired and used in another case. This will be held up pending location of repair works, probably Milan.

3. Crane house and 20 Ton crane were undamaged. Crane house is now being converted to use as sub-station building for 50/15KV transformer. Switching equipment is to be placed outdoors. Present rate of work is very slow only six men on job. Capt. Stevens is to be located at Forli commencing Monday to push work on sub-station and transmission line.

Clarence S. Wilcox
Major Ord.
Field Engineer

DISTRIBUTION:
— Lt Col Lapper
— Lt Col Parker
Major Barry
Lt Col Spann
Major Wilcox

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C O N F E R E N C E 1 J U N E 1 9 4 5
 =====
 S. B. E. O F F I C E B O L O G N A

Major McKenzie	(No. 1 Distr.)
Lt Fallows	(No. 1 Distr.)
Major Barry	(Elec. Div.)
Major Wilcox	(Elec. Div.)
Capt Rogers	(Emilia E.O.)
Eng. Molé	(SBE)
Eng. Righi	(SBE)

1. Conference centered about ways and means to ensure rapid delivery of power to Forlì area. Present plans of SADE Company include completion of 50 KV transmission lines Rovigo-Ferrara, 5 June 1945 ; Ferrara - Portomaggiore, 12 June 1945 ; Codigoro - Portomaggiore 12 June 1945. Plans were made for construction of 50 KV line Portomaggiore , Argenta , Cotignola , Forlì , also for reconstruction of 50/15 KV sub-station at Forlì.

2. Lt Fallows is to represent No.1 District on the program and will have Army aid in mine removal. He will also be able to furnish Six 3 Ton trucks , one are welder, and two acetylene welders. Capt Stephens , Electrical Officer, will represent Emilia regional engineer at Forlì. He will maintain necessary liaison with elect. Co. technicians etc.

3. Reconstruction of 50 KV line requires the rehabilitation of 83 Pylons and restringing of 35 tons of new copper conductor. The SER Company have approximately 80 tons of scrap copper. Possibility of redrawing wire at Brescia is to be investigated. A second source of wire is to dismantle a second line between Glas and Udine and transport both wire and insulators to Forlì.

4. It is planned to convert a 5,000 KVA 60/50 KV transformer now located at Bussolengo to 50/15 KV and move it to Forlì. Sufficient switch gear is available to operate this sub-station.

Clarence S. Wilcox
 Major Ord.
 Field Engineer

DISTRIBUTION:

Lt Col Lapper
 Lt Col Parker
 Major Barry
 Lt Col Spann
 Major Wilcox

5243

109
RECEIVED

25 MAY 1945

HEADQUARTERS-EMILIA REGION
ALLIED MILITARY GOVERNMENT
APO 394
Public Works and Utilities

HQ AMG LOMBARDIA REG.

22 May 1945

Reference: RIX/PU/02.2

Subject : Transmission line repairs

To : Lt Col Parker
Advance Section, Electrical Division
Public Works and Utilities Sub-Commission
Allied Commission

1. The attached is a fairly accurate analysis of the transmission situation in the provinces of Forlì and Ravenna and outlines the work and materials necessary. I would recommend that you give this matter your consideration since the electrical situation in this area is acute.

2. I realize that the Valdarno tie-in has priority, but I would like to stress the importance of repairing these lines.


E.H. ROGERS

Capt. C.E.

Electrical Officer

COPY TO

- 1) ELEC. SECT, PWandU S/C
- 1) FILE

5242

17 May 1945

CONCLUSIONS DRAWN BY THE MEETINGS OF BOLOGNA BETWEENDoc. BOLOGNESE Doc. ROMAGNOLA Doc. ROMAGNOLA
Eng. MODE' AND Eng. ARCHI (14 May 1945) AND Eng. NICOLIS(16 May 1945.)PROGRAM OF FIRST RESTORATION OF THE SERVICE OF THE ELECTRICAL COMPANY OF THE ROMAGNA (Provinces of Forlì and Ravenna).

To operate the 15 kV lines of the Romagna from Forlì, by installing there, in a box, a 6000 kVA=50/15 kV transformer of the type water cooled (need of water 3=4 litres per second), of property of the Company of Bologna. This Company can also furnish the suited 15 kV switch.

To Eng. Nicolis have been given all the encumbrance measures of the transformer. He will immediately have the box=building built, and examine the problem of cooling-water supplying.

The most suitable and quick solution to operate at 50 kV the above transformer is the renewal of the line: Portomaggiore = Argenta = Cotignola = Forlì, since Portomaggiore, even leaving out of consideration the restoration of the pre-existing 120/50 kV transformation house, will be in a relatively short time operated from the North with a 50 kV current.

The whole Romagna can be operated at 15 kV from Forlì. Really the electrical Company of the Romagna has already restored the lines with this tension: Forlì = Faenza; Forlì = Ravenna; Forlì = Cesena; and will look to the restoration of the line Cesena = Rimini (little damaged), a very necessary restoration, because Rimini is at present defectively and precariously supplied from the South (Unes).

The above enunciated program requires the following works:

50 kV lines

- 1) Restoration of the branch Portomaggiore = Argenta (it will be done by the Padana Company)
It does not appear much damaged.
- 2) Restoration of the branch Argenta = Ponte Bastia = km.6,5 line with iron props copper conductors of 50 mmq. section, rigid insulators .(it will be done by the Company of the Romagna)
- 3) Restoration of the branch: Ponte Bastia = Cotignola : about 22 kilometres line with iron props, copper conductors of 50 mmq. section, rigid insulators (it will be done by the Company of the Romagna) .
In this branch 41 props are felled, and 10 tons of 50 mmq. wire and about 200 insulators are missing.

5241

- 4) Restoration of the branch Cotignola = Forlì : about 21 kilometres line with iron props, copper conductors of 50 mmq. sect., hanging insulators (it will be done by the Company of the Romagna) .
 In this branch appear:
 65 felled props (of which three have been taken to pieces, instead of being throw down, yet they are still on place) .
 Three poles are damaged by bombsplinters.
 One pole bias by bomb or shell~explosions.
 Are missing: 25 tons of copper sect. 50 mmq. and 250 insulator~chains.

15 kV lines

Restoration of the Cesena-Rimini : about 35 Kilometres line, with iron props, copper conductors, sect. 28 mmq., rigid insulators. (it will be done by the Company of the Romagna).
 15 props are felled.
 The electric plant of Cesena can directly provide for the few missing insulators.
 The whole copper is missing, and in the case of reconstruction of the branch with 35 mmq. copper, instead than 28 mmq. as it was, are wanted 36 tons copper .

SUMMARY OF THE NECESSARY MATERIALS

Besides the iron for repairing the props, that is in a quantity not yet determined, are requested the following chief materials, which cannot be found on place:

50 kV lines

35 tons copper sect. 50 mmq.
 200 rigid insulators
 250 insulator chains.

15 kV lines

36 tons copper sect. 50 mmq.

Are still wanting:
 a little quantity cement for repairing the props foot, couplings, small vices etc.

Remark The Company of the Romagna has about 80 tons scrap copper (30 at Cesena, 21 at Forlì, 20 at Rimini, 9 at Faenza)
 Where can this material be sent for obtaining some conductors?

ORGANISATION OF WORKS AND WORKING MEANS FOR THE KV 50 LINES

- 1) First of all it is necessary to take off the mines from the ground where are lines to repair. We know the existence of some mine fields, but the situation has to be verified for

for the whole lineway, and it is necessary to see to it with the utmost urgency.

We demand for this, Captain Rogers' intervention.

- 2) It is necessary to have at command at least three motor-trucks : two of which would be equipped with electric welding set, installation of iron-cutting by means of oxi-acetylene welding; the third truck would have possibly a towed lorry to carry to and from workshop the damaged iron props that are not reparable on place.

The equipment of motor trucks will be cared by the Company of the Romagna directly or by means of Firms which have already made offers.

To have the motor trucks at command is requested Captain Rogers' intervention.

As soon the motor trucks will be at its commands, the Company of Bologna which already has underhand some reliable Firms, as above said, for trucks equipment and props re~building, will have the works started.

100-001

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