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

ACC 158/PWU

10000/150/463
(VOL. III) (PART 3)

ELECT
DEC. 19

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

10000/150/463
(VOL. III) (PART 3)

ELECTRICITY, CENTRAL ITALY
DEC. 1944 - APR. 1945

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

Tel. 489081
Ext. 317

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

NWL/ac

123

10 April 1945

Dear Prof.A.Angelini,

I have just received your cable informing me that the N° 3 Galleto Group has started operation and will now be able to carry full load.

We send congratulations to you and to all your staff and employees on the very good work which they have done in carrying out repairs to this large electrical plant which will now be used for supplying electricity to a number of factories in central Italy.

Our visit to the works yesterday when the machine was started up for the first time was indeed a pleasure and it was good to see the enthusiasm of all your employees when the machine came into operation. We shall look forward to the restoration of the third and fourth group and would assure you of our continued support in bringing these plants back into service.

W.M.LAPPER
Lieut-Colonel,
Chief Elec. Div.

Prof. Eng. A. ANGELINI
c/o Terni Company
Via Due Macelli N° 66
ROME

800

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

4

Tel. 470.906

HEADQUARTERS ALLIED COMMISSION
BUREAU OFFICE MEMO

Vai/mm

9th April 1945

SUBJECT : Italian Electricity Situation as of 9 April 1945.

TO : Acting Director, Public Works and Utilities Sub-Commission.

122

1. In accordance with your instructions to Lt.Col. WM. Lapper for information concerning the present Italian electricity situation, there are transmitted herewith two copies of a tabulation showing the data requested.

File
Liberi Centrali Italy
Land

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

799

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STATISTICS RE PENINSULAR
ITALIAN ELECTRICAL FACILITIES
9 APRIL 1945
Sheet 2

TRANSMISSION LINES (30 KV and over)

	South Italy	Central Italy
- Present Length, Kilometers	3,196	3,932
- 31 December 1941 Length, Kilometers	4,493	9,409
- Damaged Length, Kilometers	3,100	8,580
Repaired Length, Kilometers	1,803	3,103
Repairable Length, Kilometers	1,297	5,477

POWER PLANTS

Hydro			
- Present nameplate capacity	MW	217.8	166.7
- 31 December 1941 Nameplate Capacity	MW	392.2	643.4
Damaged Capacity	MW	225.4	572.7
Repaired Capacity	MW	50.2	96.0
Repairable Capacity	MW	45.4	230.7
Steam			
- Present nameplate capacity	MW	58.6	56.3
- 31 December 1941 Nameplate Capacity	MW	80.9	236.3
Damaged Capacity	MW	76.1	202.0
Repaired Capacity	MW	53.8	22.3
Repairable Capacity	MW	-	35.0

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3 floor

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

124

13 Feb. 1945

Reference: 158/PWU

SUBJECT : Transformer for Pescara

TO : Regional Commissioner, Abruzzi-Marche Region
(Attention Regional Engineer)

1. Information has been received from Major Rivett, No. 1 District, that a 3,000 KVA transformer 60/30 KV is being despatched by road to Pescara substation. It is anticipated that this transformer will arrive on 20 Feb. but we will let you know any changes in date should they occurr.

Will you please inform U.N.R.R.A. and urge them to have the necessary tackle available in order to effect the "off loading" in the shortest possible time.

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

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STATISTICS RE PENINSULAR
ITALIAN ELECTRICAL FACILITIES
9 APRIL 1945
Sheet 2

SYSTEM DATA

		South Italy	Central Italy
Generating Capacity at lowest point	MW	0.0 (Lack of Lines)	12.0
Generating Capacity to-day (Actual output)	MW	174.7	164.3
Estimated actual generating at 31st July 1945	MW	178.0	260.0

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SARDINIA AND SICILY
GENERATING CAPACITY
9 April 1943

POWER PLANTS

		Sardinia	Sicily
Hydro			
- Present Nameplate Capacity	MW	50.9	40.0
- 31 December 1941 Nameplate Capacity	MW	50.9	40.0
Damaged Capacity	MW	0.0	0.0
Repaired Capacity	MW	0.0	0.0
Repairable Capacity	MW	0.0	0.0
Steam			
- Present Nameplate Capacity	MW	45.2	51.6
- 31 December 1941 Nameplate Capacity	MW	45.2	51.6
- Damaged Capacity	MW	0.0	51.6
Repaired Capacity	MW	0.0	46.6
Repairable Capacity	MW	0.0	5.0

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THE CENTRAL ITALY GRID
As of 9 April 1945

With the inauguration of the Central Italy Electricity Scheme in January 1945, the five separate electric companies operated as an integrated system for the first time. The significance of the unified operation is that the generating and transmission facilities of the companies are now utilized to form a single power pool and a common carrier to supply electricity to the areas of greatest need.

Operation of the grid has proven most satisfactory, having resulted in increased reliabily of service, better voltage, and a standard frequency. Hour-by-hour instructions for the operation of the grid are given from the Central Italy Electricity Scheme Control Room, presently located in the building of Headquarters Allied Commission.

The area covered by the grid reaches from Ceprano on the south to Prato and Rimini on the north, excluding the areas surrounding Leghorn and Ascoli. Later the grid will be extended to cover these points. Cities served besides Prato and Rimini include Rome, Terni, Civitavecchia, Perugia, Ancona and Florence.

The present peak load on the Central Italy grid is approximately 100,000 KW. The daily energy production is about 2,000,000 kilowatt hours, 90 percent of which is produced by hydro [illegible] and the remainder by thermal plants.

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8 APR 1945 158

121

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

Florence, 6 Via Cerretani
Telephone nº 1153
3rd April 1945

SUBJECT: Power distribution
at Larderello & Castelnuovo plants.

Ref.: L/1 AC/ab

TO : Lt-Col. Renton
Electrical Division P.W. & U. S/C
H.Q. A.C. APO 394

The attached is forwarded response to your telephone request.

ADVANCED SECTION SUB-COMM OFFICIAL MAIL A.C. ELECTRICAL DIVISION

A. Cowtan, Major
P.W. & U. S/C, A.C.

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2 enclosures: 1 tabulation
1 graphic

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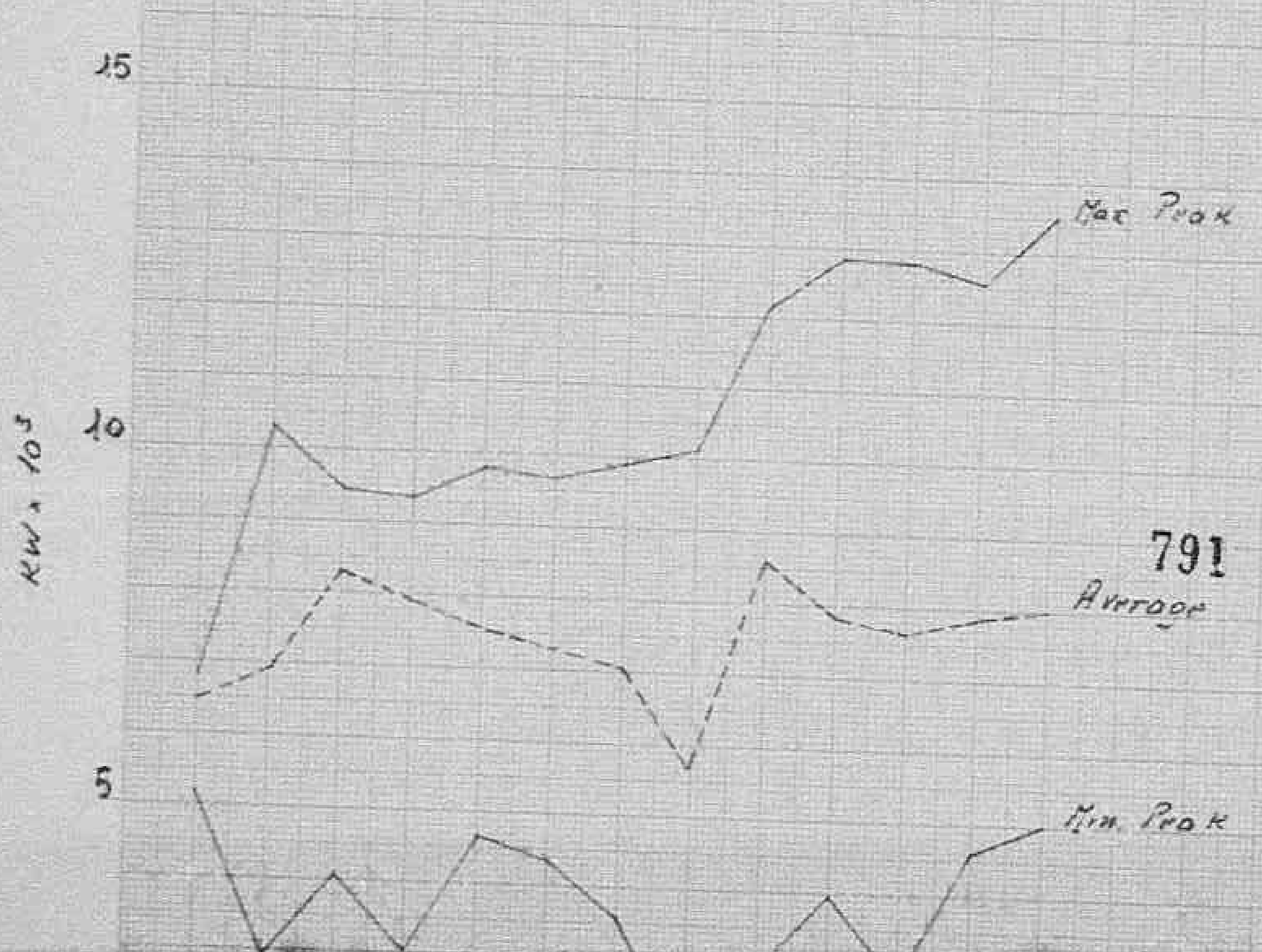
POWER DISTRIBUTION AT LARDERELLO AND CASTELNUOVO PLANTS

Date	Max. Peak KW	Min. Peak KW	Average KW
March 18th	6.800	5.200	6.500
" 19th	10.300	2.950	6.900
" 20th	9.450	4.100	8.300
" 21st	9.350	3.050	7.900
" 22nd	9.800	4.650	7.500
" 23rd	9.675	4.325	7.300
" 24th	9.900	3.575	7.050
" 25th	10.125	1.700	5.700
" 26th	12.150	2.900	8.600
" 27th	12.850	3.975	7.850
" 28th	12.800	2.800	7.650
" 29th	12.565	4.600	7.850
" 30th	13.500	5.000	8.000

ADVANCED SECTION
OFFICIAL
DATE
ENGINEERING

Power Distribution at Lordsville
and Castelnuovo Plants



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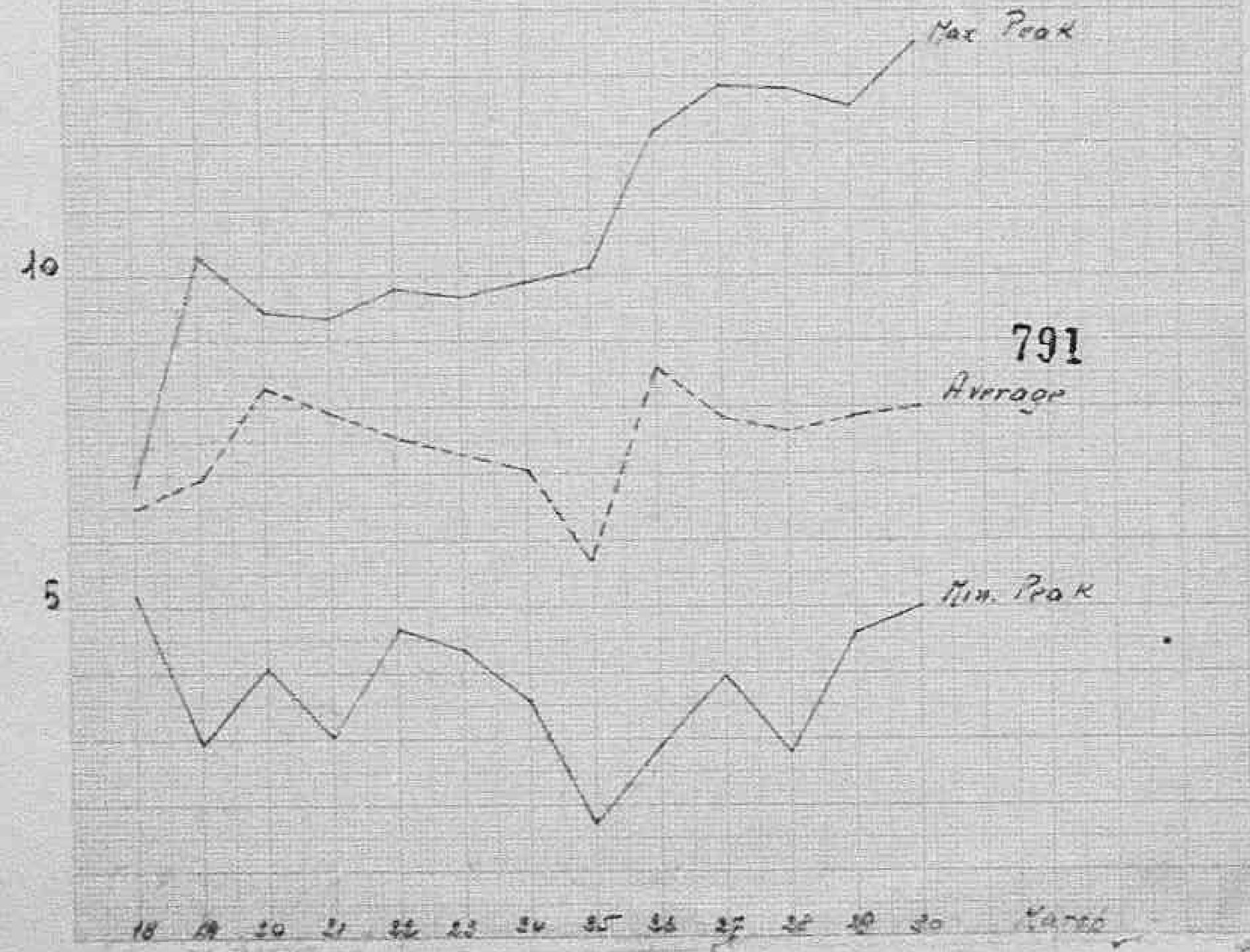

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HEADQUARTERS
TOSCANA REGION
ALLIED MILITARY GOVERNMENT

P.W.4U. T20

RVIII/100/158

2 Apr 45.

Subject : Operation of Larderello Plant.

To : Director, Public Works & Utilities Sub-Commission, AC. ✓
Regional Engineer, Toscana Region, A.M.G.
Major E. F. VALERIO, thru P.C. GROSSETO Province.

1. Attached hereto are copies of RVIII/100, this Hq, dated 17 Mar 45 to Commanding General, P.B.S. regarding the operation of the Larderello Power Plant, and 1st Ind thereto dated 24 Mar 45 being the reply from PBS, which are forwarded to you for information.

By ORDER of Colonel KIRKWOOD:

D.M. Findlay
J/Comdr. A.T.S.

HEADQUARTERS
I TA C.
A.

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P.W. & U. S/C A.C.
8 APR 1945 158

D. M. FINDLAY,
Junior Comdr, A.T.S.
Acting Adjutant.

Encls.
2

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7 APR 1945 158

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

Florence, 6 Via Cerretani
Telephone nº 1153
5th April 1945

Information for Lt-Col. Renton

Total km of lines rebuilt by Selt-Valdarno Co. and put into service during the month of March 1945:

23 Km	120 KV line Tavarnuzze - Prato
17 "	30 KV line Firenze - Prato
5 "	30 KV line Tavarnuzze - Empoli

SECTION
P.W.A.C.
SUB - COMM
OFFICE
DATE
ELECT DIVISION

, Major

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7 APR 1945 158

Florence, April 5th 1945

118

Lt-Col. Renton.

During phone talk today you asked:

Is there any other source of energy into Florence other than from Terni?

SANT'ANDREA near ROVEZZANO (suburbs of Florence).
Connected on 10 KV Grid - 700/800 K.W.H. daily.

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8 APR 1945 159

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

Florence, 6 Via Cerretani
Telephone nº 1153
5th April 1945

Information to Lt-Col. Renton.

Tavarnuzze inspection 5th April 1945 - Capt. Lowdon.

32 oil drums left this morning for filling at San Romano and return to Sub-station.

Vacuum pump is now ready for service after having been stripped and repaired.

Cement. There is again a hold up with cement, but we are getting releases and transport laid on today, in liason with E.C. 77 C.R.E.

The core of the transformer is now in the tank and the top plate should be in position tomorrow evening.

The engineer in charge stated that the transformer will not be ready until after the 15th April.

[signature], Major
P.W. & U. S/C, A.C. El.Div.

ADVANCED SECTION
P.W. & U. SUB-COMM
OFFICIAL
DATE
A.C.
ELECTRICAL DIVISION

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P.W. & U. S/C A.C.
7 APR 1945 15h

April 5th 1945

116

From Major Crowther.

50 KV line VAIONI - VERGATO two circuits.

Railway Office in Florence has no information. This line is near the front and railway workers are not allowed to operate.

220 KV line N.W. to SPERANDIO.

The only information available in Florence is that between RIVREDI and MARCIANO (about 2 Km. south of Sperando) the situation is as follows:

n° 32 steel towers damaged
in 108 spans the single conductor is missing
" 33 spans the wire is damaged
" 30 spans the guard wire is missing
" 8 spans the guard wire is damaged

If the line must be repaired Selt-Valdarno Co. needs:

iron
conductors
calcium carbide
transportation
3 months work

This 220 KV line is "C.O.M.I.N.T." property and Selt-Valdarno is responsible from Tavarnuzze to ANCONE, 17 Km north of Sperando.

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3 APR 1945 158

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

Florence, 6 Via Cerretani
Telephone nº 1153
5th April 1945

SUBJECT: Status of Transmission lines.

Ref. : A/1 AC/ab

TO : Electrical Division
Public Works & Utilities Sub-Commission
H.Q. Allied Commission
A.P.O. 394

120 KV line Rifredi - Suviana:

- The line is repaired between RIFREDI and tower nº 32 (near Calenzano);
- from tower nº 32 to tower nº 54 the Army is working with civilian help;
- from tower nº 54 to VAIANO the Rifredi railway gang is working;
- from Vaiano to SAN QUIRICO DI VERNIO railway workers are working with the help of Army to repair 5 towers: 3 towers are already repaired, 1 is under repair; it is certain will be possible to repair the other one;
- from S.Quirico di Vernio to CA' DI LANDINO the railway gang is working.

In Florence further progress is not known, but after inspection by Ing. Salmi it is hoped we may be able to give further information.

The towers of the line are all steel towers of two different types. In the portion of line Rifredi - San Benedetto, where it has been possible to inspect, no new towers are required.

ADVANCED SECTION
SUB-COMM.
O-FOR.
ALLIED COMMISSION

A. Lonsdale, Major
P.W. & U. S/C, A.C. - El. Div.

786

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TO: Major Crowther

April 4th 1945

114

Florence supply from Terni

Eng. Landucci and Sig. Rubieri do not agree with the report on the 130 KV supply to Florence dated March 19th.

The Valdarno thinks that the tension starting from Galleto does not be admissible for them if higher than 120 to 122 KV.

The transmission line is 180 Km to Tavarnuzze - copper 120/115 sq mm - 30 ohm - its capacity, when the line is operated at very reduced load, gives an increase of tension of 5 KV.

As the Galleto nº 1 and Nº 2 units must be operated according w: with the requirements of the general grid, with the transformers and autotransformers possible ratio the tension cannot be lower than 135 KV.

Eng. Landucci thinks that it will be nearly useless to make a test because the figures of the tension can be forecasted. He proposes that the Florence supply may be given at 60 KV so as it is now.

The Valdarno will operate at 60 KV also the line Castelnuovo dei Sabbioni - Florence - Prato and so will be able to increase the output without increase of losses and to be supplied with the total allocation as they will have on the line a 36000 KVA transformers capacity. As soon as the Galleto nº 3 unit will start operation, the Florence area supply may be given at 120 KV as one set will operate (not connected) on Florence, and the tension on the generators bars may be regulated according with the Florence requirements.

The Valdarno has sent to Eng. Aska - Rome - a report as annexed.

If the figures of the Galleto transformers ratio are correct so that it is not possible to have a tension of 120 to 122 KV, I think it will be much better to go ahead with the 60 KV supply, operating at 60 KV also the Castelnuovo - Tavarnuzze - Prato line, and start the 120 KV operation when the third Galleto unit will be available.

dr. ing. M. Errera

Annexed: Valdarno transformers ratio schedule

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7 APR 1945 15 8

785019

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SELT-VALDARNO Electrical Co.

TRANSFORMERS CONNECTED WITH THE SOUTHERN GRID

CASTELNUOVO DEI SABBIONI

Brown-Boveri To - 12.000 KVA - KV 60,8/36-40-42-44

S. Giorgio (T.C.O. 1438) 12.000 KVA - KV 121, 6-60, 8-57/36-38-40-42-44/6,6-6,3-6,6.

TAVARNUZZE

Clerici (20790) 6.000 KVA - KV 60/28,5-30-31,5.

Brown-Boveri TUW-20,000 KVA - KV 121.6/44-42-40-38-36.

PRATO

S.Giorgio TOR - 6,500 KVA 66/33.3 - 34.4-35.4-36.4

FOIANO

C.G.E. HT. 2,000 KVA - 45 Kz KV 61-59/10,600-10,000-9,600.

If the tension starting from Papigno should be 135 KV. Florence could not be supplied. With the transformers connection on the 121.6/36 ratio - the Florence tension should be 40 KV - it is 40% higher than the actual.

We ask you to continue the 60 KV operation until the Galleto nº 3 unit starts operation - because than it will be possible to operate not connected with the grid - and start with 120 KV from Papigno.

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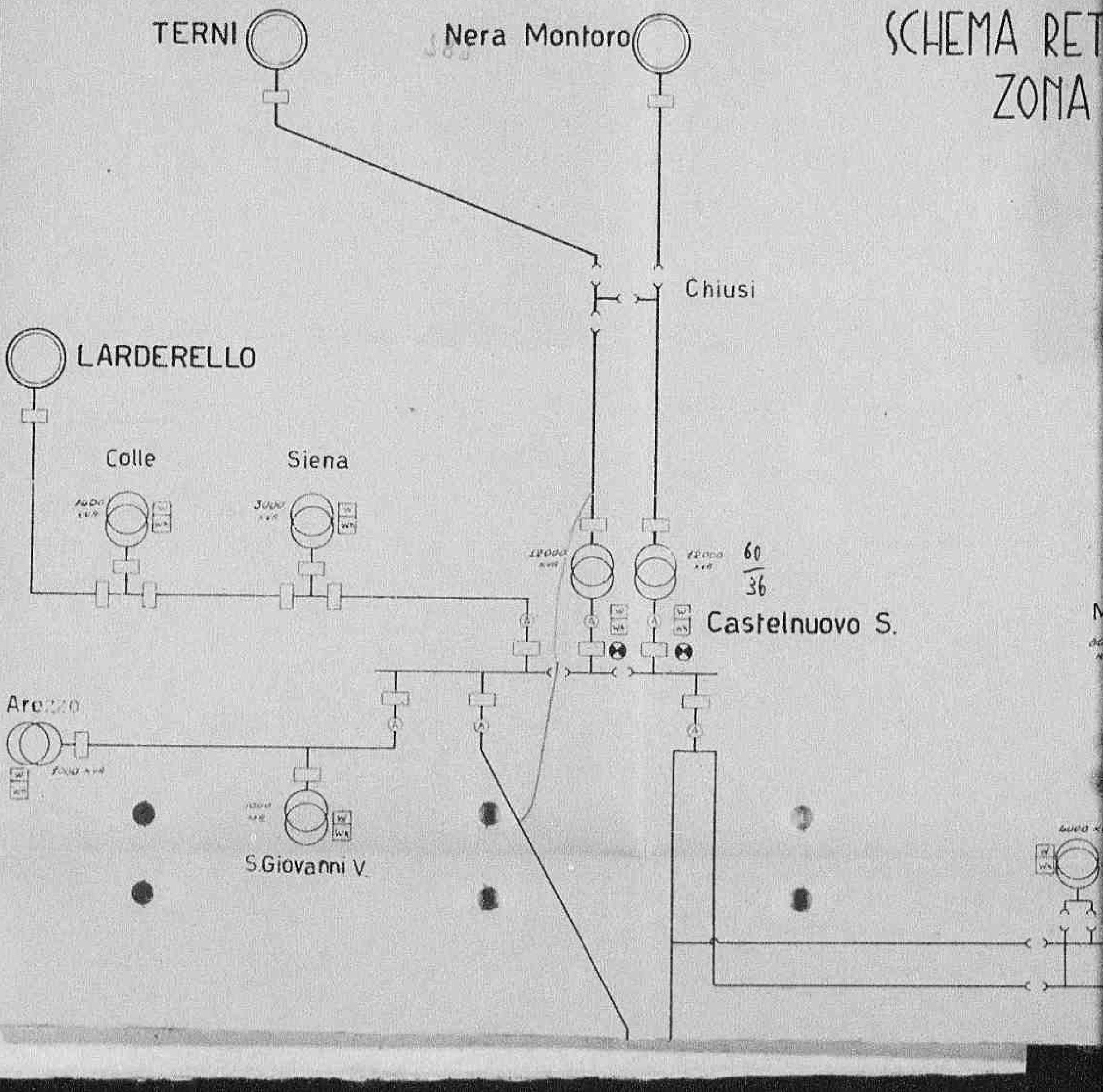
SCHEMA RETE ZONA



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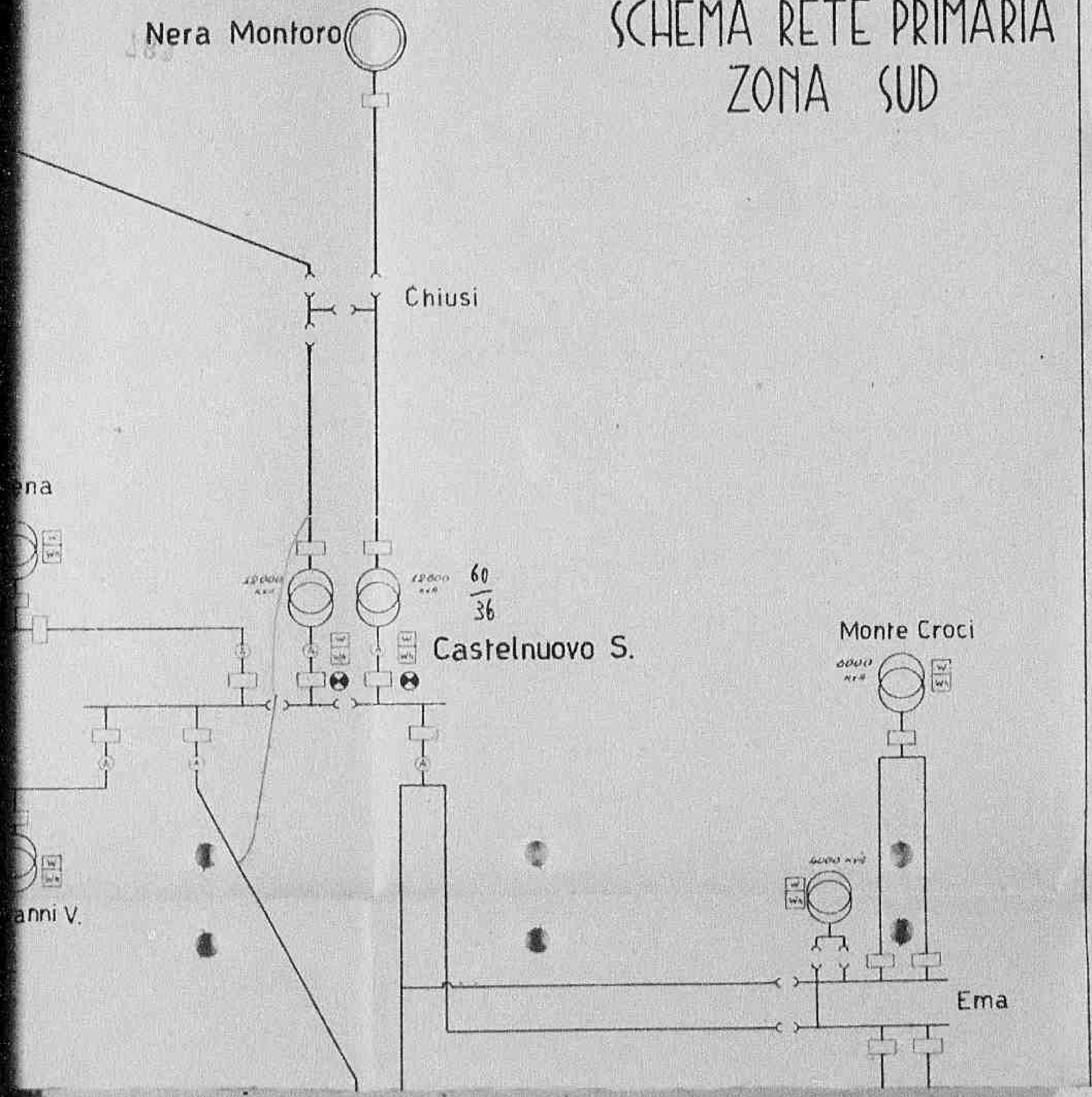
SCHEMA RETE PRIMARIA
ZONA SUD



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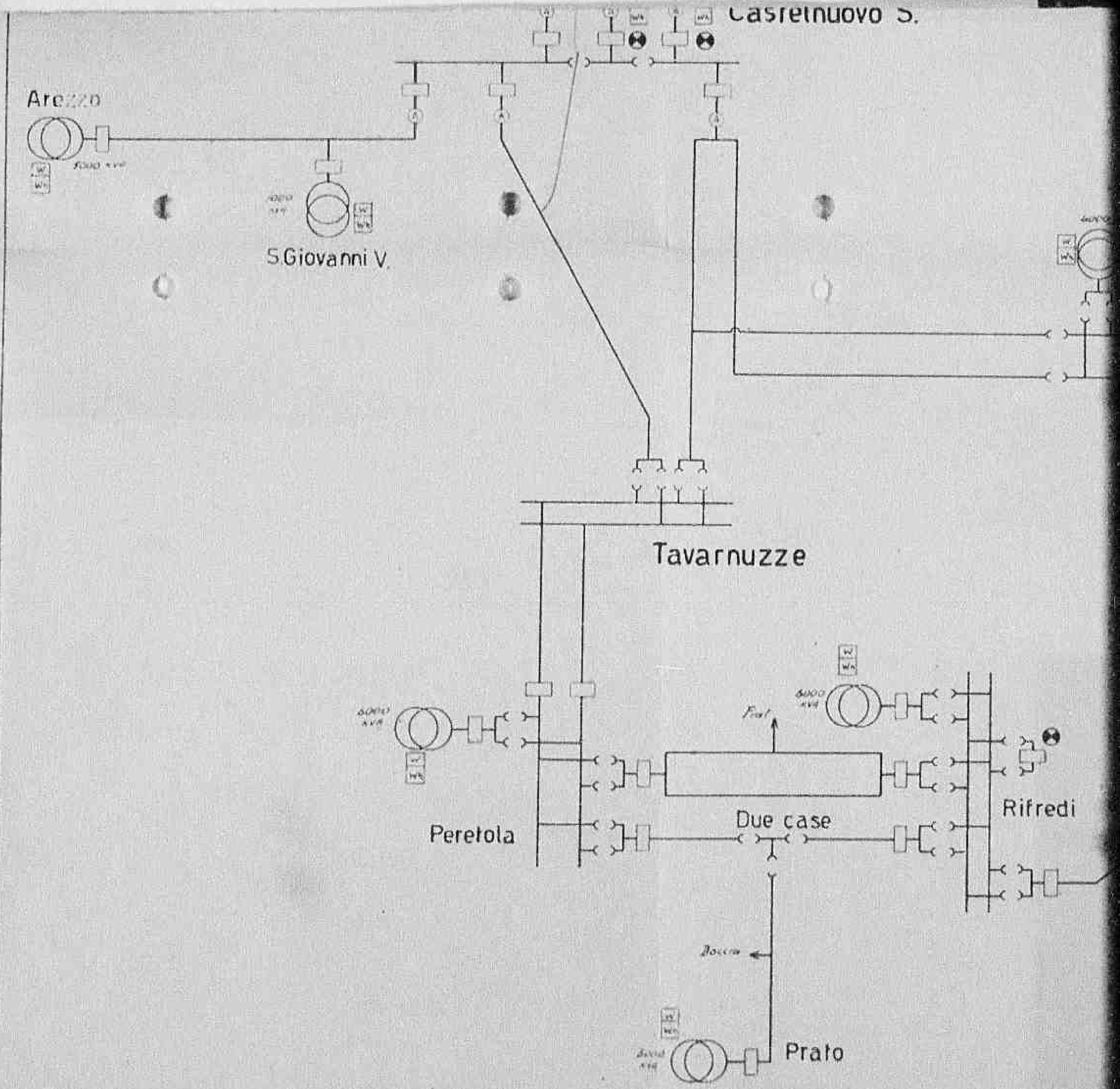

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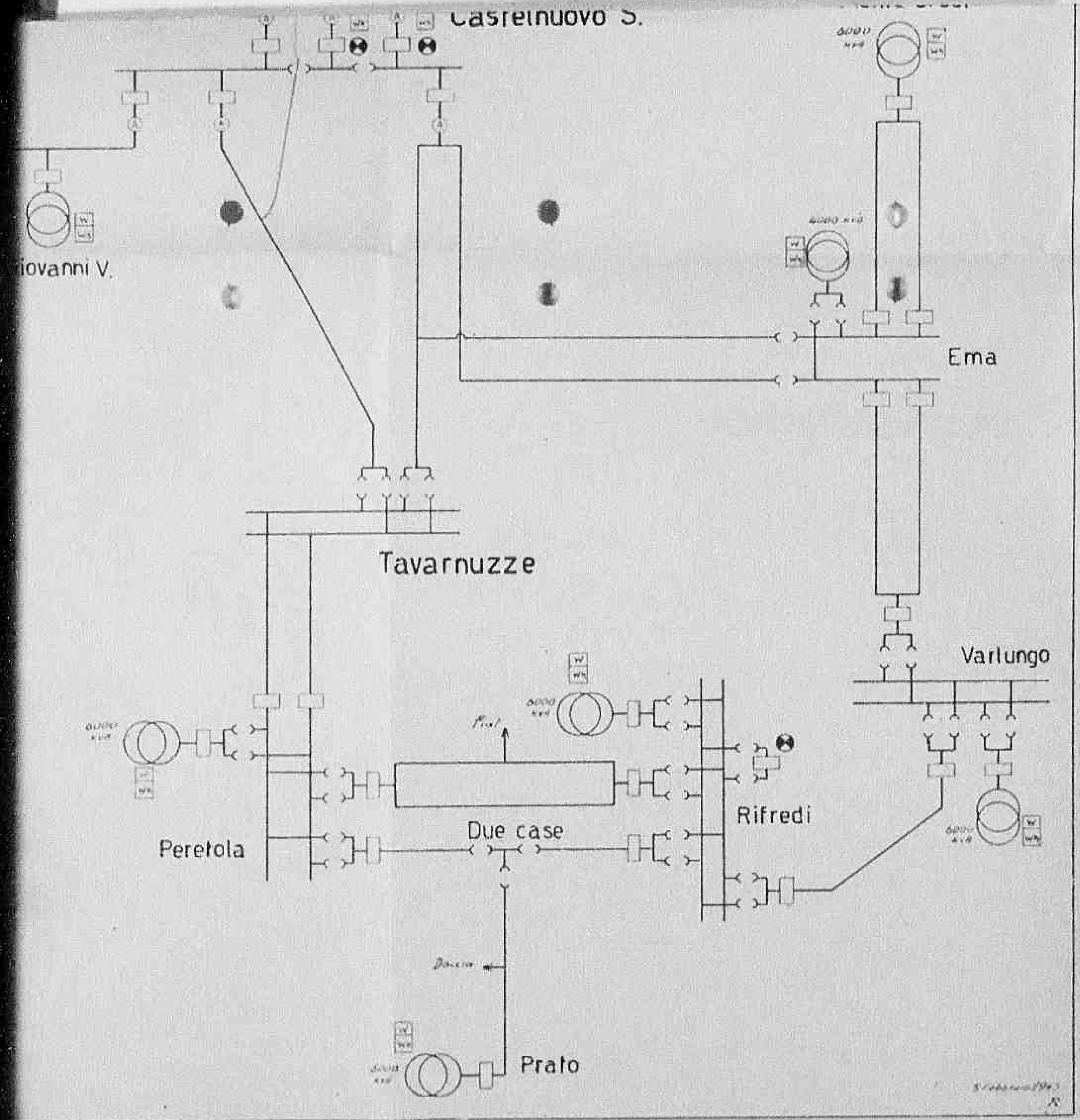

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VER/lam

DISCUSSION WITH TERNI AND VALDARNO REPRESENTATIVES

RE 150 KV SUPPLY TO FLORENCE

19 March 1945

To discuss high tension supply to Florence and the north the following gathered in Prof. Aste's office on the afternoon on 19 March 1945:

Prof. Ing. A. Aste	Ministry of Public Works
Dott.Ing. V. Calenda) Dott.Ing. D. Pietromarchi)	Central Italy Electricity Scheme
Sig. Rubbiero	Valt Valdarno Company
Prof. Ing. M. Angelini	Terni Company
Major V.S. Renton	Electrical Division Allied Commission

The meeting was called because Terni had proposed using another plan of obtaining a high tension feed to Florence.

The original plan had involved taking power at 150 KV at Terni, transmitting it to Orte, stepping down to 150 KV, thence returning it to Terni for transmissions to Florence. The disadvantages of this scheme are that an extra pair of transformers are needed at Orte, as well as the length of line between Terni and Orte.

The new scheme proposed is to utilize the two auto-transformers at Terni to reduce the primary voltage on the 20,000 KVA transformers, so that 130 instead of 150 KV will be obtained on the secondary. Terni estimates that even with the reduced primary voltage the taps on the third winding can be adjusted to produce 70 KV under load.

The Valdarno representatives brought out the following points:

a. That the 130 KV transformer on the Florence end of the Terni - Florence line is designed for 50 cycles and that 130 KV at 45 cycles may cause excessive heating.

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b. That the voltage at the Florence may become excessively high during periods of light load.

c. That while the 130 KV transformer at Florence contains taps, they can not be changed under load, and that if 130 KV is not satisfactory, and a reduction to 150 KV must be made through the Orte transformer it would require a long outage to make the change.

After some discussion, the Valdarno representatives agreed to try operation at 130 KV. In the event that the Florence voltage becomes too high, some degree of regulation can be obtained from the synchronous condenser at Prato.

(On the following day Major Renton discussed the Orte transformers with Major Frank Khuzie, MRS, and it was agreed that work would continue on the Orte transformers to place them in operating condition).

The auto transformers mentioned above are now connected with 2 - 20,000 KVA transformers operating with the first Allato unit. These transformers do not have 150 KV bushings installed now. Consequently they will have to be replaced by the two transformers now being repaired, having 150 KV bushings. Ing. Angelini was asked to prepare a schedule for Capt. Vannoy's approval, so that the replacement can be made with the shortest possible outage.

Distribution
Col. Lapper
Major Barry
Major Bell
Major Renton
Capt. Vannoy
Eng. Amts (4)

781

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4-

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P.W & U. S/C A.C.
27 APR 1945 156

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

113

Florence, 6 Via Cerretani
Telephone nº 1153
4th April 1945

SUBJECT: Transmission lines.

Ref.: V/O AC/ab

TO : Electrical Division P.W. & U. Sub-Comm.
H.Q. Allied Commission
A.P.O. 394

Confirming detail given over the phone Bell-Renton even date.

ADVANCED SECTION
P.W. & U. SUB-COMM.
GENERAL
DATE
ELECTRICAL DIVISION

Major
P.W. & U. S/C, A.C., El.Div.

1 enclosure

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

Location	Ref.	KV	Nº of circuits	Detail
Chiusi - Nera Montoro	180	60	2	One circuit in operation only.
Chiusi - Poggio Piovano	182	60	2	Maremmana Co. Very badly damaged; no wire; no program.
Tavarnuzze - Castelnuovo Sabbioni	200	60	2	On the 120 KV pylons one circuit in service at 30 KV. No repair program for the other circuit.
Arezzo - Bibbiena	191	30		In service at 10 KV.
Livorno - San Romano	192	120 30		Cannibalized (Used on other lines).
Larderello - Poggio Piovano		30 60		1 - 30 KV circuit in operat. 1 - 60 KV circuit in operat. wire from one circuit removed to repair other in each case.

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2 APR 1945 154

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LOCATION OF PRINCIPAL PLANTS IN BOLOGNA DISTRICT.

Map 1.200,000 Sheet 11 & 12

BATTIFERRO	L 8951
CANONICA	in Bologna city area
QUARTO	R 6882 - (12)
MAGLIO (near Marzabotto)	L 7733
PREDARE	L 0833
LIGONCHIO	L 0932
MUSCHIOSO	L 2328
FARNETA	L 3037
STRETTARA	L 2717
SAN MICHELE	L 3217

ADVANCED SECTION
SUB-OFFICE
OFFICIAL
DATE
CENTRAL DIRECTORY

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

Name of plant	Company	River	Flow cu m.	Head M.	Machinery M. W.	Hz	
BATTIFERRO	Bolognese: S.A.D.E.	Reno - Canal	4.7	6.2	1 x 0.3	42	Bolo Old tion.
CANONICA	do do	do do	11	4.5	2x0.22	42	
QUARTO	Società Idroelettrica Alto Savio - S.A.D.E.	Savio	4.2	72	3x1,25	50	
MAGLIO	Paper mill	Reno	5.3	10	2 x 0.1	42	
PREDARE	Edison - Cisalpina	Ozzola	1.7	250	2x6 2x4 1 x 6 1x6 2x4	50 16 42	} pl
LIGONCHIO	do do	do	1.-	275	1 x 7 1 x 7	16 42/50	} pl re
MUSCHIOSO	Edison - Società Emiliana Esercizi Elettr.	Dragone	1.8	151	1 x 7	42/50	
FARNETA	do	Dolo-Dragone	4	329	2 x 15	42/50	Uni may
STRETTARA	do	Scoltenna	5	112	2 x 3	42/50	Set
SAN MICHELE	do	San Rocco	1.1	97	1 x 1.3 1 x 1.2 1 x 0.06	42	

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

Lt. Col. Renta

...nny	River	Flow cu m.	Head m.	Machinery M. W.	Hz	Remarks
S.A.D.E.	Reno - Canal	4.7	6.2	1 x 0.3	42	Bologna main Substation Old steam plant ? No information.
do	do do	11	4.5	2x0.22	42	
...droelettrica ...o - S.A.D.E.	Savio	4.2	72	3x1,25	50	
...l	Reno	5.3	10	2 x 0.1	42	
...Cisalpina	Ozzola	1.7	250	2x6 2x4 1 x 6 1x6 2x4	50 16 42	plus rotary converters
do	do	1.-	276	1 x 7 1 x 7	16 42/50	plus rotary converters? No report
...Società Emi-...rcizi Elettr.	Dragone	1.8	151	1 x 7	42/50	
...do	Dolo-Dragone	4	329	2 x 15	42/50	Units: turbine gen.42 gen.50 may operate as converters
...do	Scoltenna	5	112	2 x 3	42/50	Sets 6500 KVA each
...do	San Rocco	1.1	97	1 x 1.3 1 x 1.2 1 x 0.06	42	

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3 APR 1945
158

Lt. Col. Preston 111

Name of Station	Present generating capacity	Provinces	Remarks
SELT-VALDARNO Co.			
ANIA (?)	440	Lucca	Reduced operation
CASALE	180	Grosseto	O.K. (Repaired)
CASTELNUOVO GARFAGNANA	7,200	Lucca	Enemy hands
CASTELNUOVO SABBIONI	20,400	Arezzo	Destroyed
DICOMANO	250	Firenze	do
LA BUCCIA	80	Pistoia	In operation O.K.
LA NUSSA	400	Arezzo	Destroyed
LIVOGNI	248	Pistoia	do
MARRADI	238	Firenze	Reduced operation
MONTEDOGLIO	560	Arezzo	Destroyed
PAGIANO	245	Firenze	do
PORRINO (SESTAIONE)	7,100	Pistoia	do
PRATANTICO	7,145	Arezzo	do
PRATO VECCHIO	120	Arezzo	In operation
RAVACCE	456	Lucca	Destroyed. Under repair
RIFREDI TH.	7,000	Firenze	Dismantled years ago
RIGNANO	136	Firenze	Destroyed
RIOFREDDO	640	Pistoia	do
ROVICO	104	Firenze	Reduced operation
S. GIUSEPPE	172	Siena	Destroyed
S. MARTINO	400	Grosseto	In operation
SILLANO	1,080	Lucca	Enemy hands
SILLICO	1,200	Lucca	do
VALPIANA	700	Grosseto	Destroyed
SOCIETA' IDR. LIGURE			
ARLIA	3,500	Massa	Enemy hands
BAGNONE	515	Massa	do
CARTARO	680	Massa	do
MONTEROSSO TH.	360	Massa	do
LUNENSE			
GEN. FIORI	240	Massa	do
GEN. TOGNONI	750	Massa	do
IDROEL. BOSSI FRASSINETTI			
FERRIERA VIVIZ.	100	Massa	do

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

Name of Station	Present operating capacity	Provinces	Remarks
JEAN VARRAUD			
FORNOLI	321	Lucca	In operation
A. MENCHINI			
LA LAMA	868	Arezzo	do
SOC. LORCEL. ALTO SENTINO			
PERSAIE	60	Pesaro	No report
SMIRRA	76	Pesaro	do
COTONIFICIO PIAGGIONE			
PIAGGIONE	920	Lucca	In operation
ELETTRO MINERARIA			
PIETRAFITTA TH.	16,300	Perugia	Partially dismantled
MANIF. IT. JUTA			
MONTE A MOIANO	556	Lucca	In operation
TONTI			
RASIGLIA	227	Perugia	No report
FALCK -			
ROCCHETTA	3,400	Massa	Enemy hands
TEGLIA	30,000	Massa	do
SOC. PICC. ESERC. ELETTRICITA'			
VINCHIANA	40	Lucca	No report
CARTIERE CINI			
ANGHIARI	1,308	Pistoia	In operation REDUCED
I.E. CORRADI PACIFICI			
MOLINO MONTE SANTO	132	Perugia	No report

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

Bob. Can you tell me the status of these plants "D" Cavaliere - action Bob

Name of Station by Companies	Present generating capacity KW	Provinces	REMARKS
	VALDARNO		
1 VALDARNO	440	Lucca	
2 CASALE	180	Grosseto	
3 CASTELNUOVO GARFAGNANA	7,200	Lucca	
4 CASTELNUOVO SABBIONI	20,400	Arezzo	
5 DICOMANO	250	Firenze	
6 LA BUCCIA	80	Pistoia	
7 LA NUSSA	400	Arezzo	
8 LIVORNI	248	Pistoia	
9 MARRADI	238	Firenze	
10 MONTEDOGLIO	560	Arezzo	
11 PAGIANO	245	Firenze	
12 PORRINO (SESTAIONE)	7,100	Pistoia	
13 PRATANTICO	7,175	Arezzo	
14 PRATO VECCHIO	120	Arezzo	
15 RAVACCE	456	Lucca	
16 RIFREDI TH.	7,000	Firenze	
17 RIGNANO	136	Firenze	
18 RIOFREDDO	640	Pistoia	
19 ROVICO	104	Firenze	
20 S.GIUSEPPE	172	Siena	
21 S.MARTINO	400	Grosseto	
22 SILLANO	1,080	Lucca	
23 SILLICO	1,200	Lucca	
24 VALPIANA	700	Grosseto	
	SOC. IDR. LIGURE		
25 ARLIA	3,500	Massa	
26 BAGNORE	515	Massa	
27 CARTARO	680	Massa	
28 MONTEROSSO TH.	360	Massa	
	LUNENSE		
29 GEN. FIORI	240	Massa	
30 GEN. TOGNONI	750	Massa	
	IDROEL. BOSSI FRASSINETTI		
31 FERRIERA VIVIZ.	100	Massa	
	JEAN VARRAUD		
32 FORNOLI	321	Lucca	

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

Name of station	Installed generating capacity KW	Province	REMARKS
	A. ARCHILEX		
33 LA LAZA	068	Arezzo	
	SOC. TERONI, ALTO ENTRO		
34 PESARO 35 MILANO	60 76	Pesaro Pesaro	
	SOCIETA' PIACENTINA		
36 PIACENZA	920	Lucca	
	MINERO PERUGINA		
37 PIETRAFITTA TI.	16,300	Perugia	
	MIN. FT. ITA		
38 PONTE A MOVIANO	556	Lucca	
	TINTI		
39 BASILIA	227	Perugia	
	PALOK		
40 MONTECCHIA 41 TELLA	3,400 30,000	Lucca Massa	
	SOC.FIOR.TEL. M.PERUGINA'		
42 VICCIANA	40	Lucca	
	CANTIERI CECI		
43 ANCHIANI	1,508	Pistoia	
	L.L. CONSORZI PACIFICI		
44 MOLINO MONTE CARRO	132	Perugia	

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

Ltr

AFHQ. Air 168 110

Letter dated Apr 2. ref Galleto Power plant, ref our 158/PWU of 28 March on fol 95 file 124.

33 - 3rd Part refers

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

Tel. 478.906 HEADQUARTERS ALLIED COMMISSION VSR/lms
AFO 394
Public Works and Utilities Sub-Commission

Reference: 158/ WU 5 April 1945

SUBJECT : Movement of Control Room,
Central Italy Electricity Scheme

TO : Italian Ministry of Public Works
(Att. Prof. A. Asta)

1. Confirming the conversation between Prof. A. Asta of the Italian Ministry of Public Works and Lt.Col. W.M. Lapper, this Headquarters, it is recommended that the permanent control room of the Central Italy Electricity Scheme, located in the Società Romana di Elettricità, Via Poli 14, be placed in operation at 1500 hours on Saturday 14 April 1945, and that normal use of the emergency control room cease at the same hour. It is important that the permanent control room be in operation at that time in order that it may be inspected by the Advisory Committee on Electric Power (Central Italy) during its April meeting.

2. For the present, the control room in the Ministero delle Corporazioni building will be available for emergency use. In case the control room at Via Poli becomes unusable for any reason, control room employees should report to the emergency control room, where operations will continue. It will therefore be necessary for the control room employees to retain their building passes in order that they may readily gain access to the building.

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

c.c. Ing. Pietrosereni
Ing. Novelli (S.E.E.) through Ing.Asta
File No. 239

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10-3rd Pub. Utilities

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

Tel.489081
Ext. 317

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

W.I.L/ac

108

Reference : 158/PWU

3 April 1945

Subject : Damage to Electricity Supply

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

1. Information has been received that Allied Troops have caused interruption of electricity supply to the Salt Mines at Tarquinia by shooting at insulators on the 10,000 Volt transmission line leading to this area.

2. The Mines have been without power on 26, 27, 28 and 29 March due to this cause.

3. As most of the transmission system is now operating in Central Italy and supplying power to factories engaged on vital work for the war effort it is desirable that this supply be maintained.

4. It is requested that a letter be circulated to Army units asking them to refrain from causing damage to electrical facilities.

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For the Chief Commissioner,

W.M.LAPPER
Lieut-Colonel,
Chief Elec. Div.

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

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

RECEIVED
P.W. & U. S/C A.C.
1 APR 1945 158

Florence, 6 Via Cerretani
Telephone nº 1153
29th March 1945

TO: Electrical Division
Public Works & Utilities Sub-Commission
H.Q. Allied Commission
A.P.O. 394

Ref. telephone request, Major Renton - Major Bell:

Herewith information called for:

1. Map showing the Selt-Valdarno grid as at Dec.31st 1944. The 220 KV line Tavarnuzze to Rubiera and Bussolengo (Verona) belongs to the "C.O.N.I.E.L." Rome. The above was complete, but not yet in operation.

2. Map showing the Selt-Valdarno grid as at September 1st 1944.
red -lines destroyed
green - lines o.k.,or already repaired lines
blue - damaged but to be shortly repaired
yellow - damaged by bombing
red & green - no report

The above data are referred to Sept. 1st 1944. The lines situation is given as at the above day. When the Germans let the contry, all the transmission lines were more or less damaged.

3. Nos of operatives employees by Valdarno on rehabilitation over 30 KV etc.: 660.

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Renton, Major

ADVANCED SECTION
P.W. & U.
SUB - COMM'N
OFFICIAL
DATE
A.C.
ELECTRICAL DIVISION

maps under cover
Col Kappen EXP mbf

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

106

RECEIVED
P.W. & U. MC A.C.
1 APR 1945
158

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

Florence, 6 Via Cerretani
Telephone nº 1153
28th March 1945

SUBJECT: Santa Maria Power Station.

Ref. : S/1 RAB/ab

TO : Electrical Division
Public Works & Utilities Sub-Commission
H.Q. Allied Commission
A.P.O. 394

1. Enclosed is report of Galileo Co. on the prospect of rehabilitation of above power station. After this report was rendered, the company were asked to render an annex (enclosed) to outline more clearly what help from the outside was desired. They were asked to make all requirements minimum as it was doubtful if the project would be worth while.

2. In view of the enclosed reports, it is recommended by this office that the rehabilitation be abandoned. This is in view of the small amount of power being made available, the length of time envolved, the use of materials now in short supply, and the road building necessary.

Please, indicate your approval or disapproval of this so that the Company can be notified.

ADVANCED SECTION ELECTRICAL DIVISION

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

2 enclosures: March 22nd report. (1 copy)
March 27th annex. (3 copies)

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2 part copies under cover

col Lapper
EJB 4-4

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

OFFICINE GALILEO

REPAIRS OF THE SANTA MARIA POWER STATION
(Reference Memo dated 22nd March 1945)

This memorandum follows the other one dated March 22nd 1945, for the purpose of adding the following explanations:

With the above memo was submitted a complete list of the materials required for the power station rehabilitation. Such a schedule was complete in order to justify the estimate of the repairs cost.

We didn't ask the Allied Commission for all materials and work means shheduled.

We point out what we think may be our effective requirements. Unfortunately we cannot give full details as our investigation was only a first one.

1°) - Materials required to the building repairs.

a) Lime and cement.

We can reduce the amount of cement needed replacing some cement with lime, so that a release of 40 tons of cement and 35 tons lime will be sufficient. The release should be from the cement factories nearest to the power station.

As the building repairs must be done as soon as possible, and completed in about 90 workable days, the supplies must be released on April 15th - May 15th - June 15th.

b) Bricks.

We need 10,000 bricks to be released during the month of April. For the tiles (300 sqm) and the roofing materials (250 sqm)the release may be obtained about May 15th.

c) Sand.

The market may supply the sand. It is only a transportation problem.

d) The steel for reinforced concrete must be released as soon as possible. The iron beams for the roof may be delivered about May 15th.

e) The market may supply the timber and yard machinery.

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f) According to the want of glasses we may reduce the windows surface so that a release of only 30 sqm of window glasses will be sufficient.

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2°) - Materials for the turbine repairs.

a) One ton steel plate for the turbines cover is required.

b) We may supply the cast-iron for the bearings and the basements; we need only the coal for the castings (250 Kg for each ton of casting).

c) We may supply the materials for the governor.

3°) - Materials for the electric equipment repairs.

a) We may supply the two tons of cast-iron, but we need about 500 kg of metallurgic coke.

b) 3 tons of steel plate and angular iron must be released.

c) Insulating materials:

We have no insulating materials except a small amount of sterling tape. We need therefore:

Sterling varnish yellow and black	Kg	50
Presspan carton		150 sqm
Mica paper		20 "
Cotton tape	"	25
Bakelite plate		8 "
Oil for tranformers	Tons	10

The above material cannot be supplied from the market.

d) The insulators may be supplied from the RICHARD-GINORI Co., but they require 6 kg. of metallurgic coke for each Kg. of insulating porcelain.

It has been calculated that this amount of coal will not overtake some quintals.

e) We may supply the other materials including what required for the meters.

4°) - Work means.

a) The 10 tons crane will be required during a week for the heavy parts dismounting.

b) The transportation problem is the most important. It is impossible to start the repairs without transportations. We have a car "Fiat 508", 30476/FI with tyres not able for a continuous severe operation.

The release of 6 tyres and tubes (6 x 16) and the

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

circulation permit for the car is required.

We have no heavy trucks for the materials transport. In about 90 days more than 500 tons of materials must be transported to the plant and a loaded truck can daily just do one trip. Therefore one truck is not sufficient to supply the works. At present we have no means to be supplied with trucks.

c) We need also four screw-jacks for loads till 12 - 15 tons. The Florence street-car workshop has such for the generator dismounting. The Galileo Co. will supply two trestles with tacklers. Two 5 tons jacks would be also required.

The other equipments may be supplie d from the market.

d) We need at least one generator set to operate the electrical welding engines and, if possible, two complete equipments for oxy-acetilenic welding.

The 5th Army has a large number of these equipments, as we have seen at The Galileo Co. partially occupied by the 3486 Ordnance Co. of 5th Army.

e) In addition to the above we ask also the gasoline for the transportation means and the generator, and oxygen and calcium carbide.

f) The travel permit are p rticularly important not only for the enginners, of whom we can report the names, but also for the workers.

It is particularly urgent to obtain the travel permit for the following engineers "Veraci Co." to visit the power station of Santa Maria:

Ing. Raffaello PASSAGLIA - di Arcangelo
identity card nº 12590
Via Dante da Castiglione 31-Florence

Ing. Alfredo CHELAZZI - di Guglielmo
identity card nº 71371
Via Dante da Castiglione 31 - Florence

The above mentioned engineers must inspect the broken governor for the construction of a new one. As already pointed out the governor supply will be the repairs bottleneck. It is therefore necessary to start study with the minimum delay.

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FINANCIAL AGREEMENT

According to the estimated cost reported on our first report dated March 22nd 1945, it will be sufficient that the sums may be supplied starting from the 15th of april in the

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

measure of 1.5 - 2 millions lire monthly.

The sums may be paid on a special account to the Officine Galileo Co., a branch of the Società Adriatica di Elettricità.

The Officine Galileo are managed under the direct control of the Commissario Prof. Riccardo Manzetti, who has received full authority through a decree issued at Rome from the Court of Justice. The A.M.G. has already taken vision of an authentic copy of the above.

The above named Commissario Prof. Riccardo Manzetti, according to the above, will also assume the responsibility for the works to be done at Santa Maria and at Florence in The Officine Galileo works.

CONCLUSION

As soon as the authority to start the works will be given, the Commissario Prof. Riccardo Manzetti will submit the requests for the travel permits and the request for the materials.

We may apply to some contractors for the masonry works in order to contract the works in the best way.

The Engineer Ambrosini will be back to Florence on Thursday the 3rd of April, and in the same day he can reach Santa Maria.

In the meantime the Galileo Co. will prepare the equipments required.

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

Tel. 47806

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

VSR/ran

26 February 1945

153/PWU

SUBJECT: Larderello Management Situation as of Today

TO : The Director, Public Works & Utilities S/C

1. It is understood that Major Vellero will be assigned to represent the interests of the Toscana Regional Commissioner at the Larderello Plant. It is further understood that these interests include finance, labor and public safety and that Major Vellero will receive instructions from Major Bell on the technical aspects of electric rehabilitation.

2. Major Bell reported yesterday that Prince Ginori and Engineer Vergilii had agreed to discuss the Larderello management situation together. Ginori and Vergilii represent opposite factions at Larderello and this is the first time that they will have talked to each other in twenty months. Major Bell also reported that there will be a meeting of the Larderello stock holders in Rome on the 28th of February at which time a new president and new general manager will be elected.

3. It is recommended that Colonel Kirkwood be notified of the foregoing, in the event that he has not been told by Major Bell. It is further recommended that you suggest to Colonel Kirkwood the fact that the two opposing Larderello factions are in a conciliatory mood and that it might be well if his office take no aggressive action, pending the results of the conference and stockholders meeting.

E. J. BARRY
Major, Corps of Engineers
Chief, Generation Dept.

VIRAL S. RENTON
Major, Infantry
Chief, Operations & Transportation Dept.

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RECEIVED
P.W. & U. S/C A.C.
23 FEB 1945 158

105B

MINISTERO DEI TRASPORTI
GABINETTO

Roma, 20 febbraio 1945

9.02

N. U.L.136/B/2464

Risposta al Nota 14 febbraio 1945
n.158 PWU

OGGETTO: Nomina Commissario S.A.Larderello.

ALLA COMMISSIONE ALLEATA
Sezione Economica
APO 394
R O M A

Si prende atto di quanto codesta Commissione comunica in merito alla nomina dell'ing.VIRGILI dell'amministrazione delle Ferrovie dello Stato quale incaricato tecnico per la riattivazione degli impianti elettrici di Larderello sotto la direzione della Sotto Commissione dei lavori pubblici ed in merito alla estrema importanza militare che ha la riattivazione di detti impianti.

Si fa però presente che la nomina di un commissario alla Società Larderello non intralcia i lavori di riattivazione in corso e non interferisce sulla funzione tecnica dell'ing. VIRGILI in quanto è diretta ad assicurare a detta società, che manca dell'organo ordinario di amministrazione per la dispersione e la inattività del consiglio di amministrazione ancora in carica, un organo straordinario, quale il Commissario.

E' noto che solo a mezzo del commissario può provvedersi alle necessarie operazioni finanziarie per la ripresa e lo sviluppo della vita economica della Società stessa.

Questo Ministero, cui preme prender conto della situazione finanziaria dell'azienda, tiene a precisare che la nomina del Commissario attiene alla questione puramente amministrativa e che per quanto riguarda la parte tecnica si è ben lieti di assecondare in pieno i desideri di codesta Commissione.

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IL MINISTRO
(Francesco Cerabona)

Translation attached

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

MINISTERO DEI TRASPORTI
GABINETTO

Rome,

N.

Risposta al N.

OGGETTO: COMMISSARIO AT S.A. LARDARELLO

to : ALLIED COMMISSION
Economic Section
ROME

It is taken notice of the letter received from that Commission in regard to the appointment of Ing.VIRGILI of the administration Ferrovie dello Stato; as tecnical envoy for the rehabilitation of the Lardarello Plants, under the Direction of the P.W.eU Sub-Commission, and of the extreme military importance of the Plants rehabilitation.

However, the appointment of a Commissario to the Lardarello Plants, will not interfere with the works of rehabilitation and either with the tecnical functions of Ing. VIRGILI, as it is only to assure the said Society, which defects of an ordinary agent of administration for the dispersion and inactivity of the Board of Directors still in charge.

It is known that only a Commissario can provide for the necessary financial operations for the economic reprisal and develpment of the same Society.

This Ministry, which is interested in the financial situation of the Lardarello Plants, wants to make clear that the appointment of a Commissario is purily based on for the administrative part and that for the tecnical part,this Ministry will be happy to follow that Commission's desire.

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THE MINISTER
(Francesco Cerabona)

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 29 March 1945

SUBJECT : Plans for the Rehabilitation of High Voltage Transformers.

TO : Ministry of Public Works
(Attention Prof. Asta)

1. Reference is made to our memorandum dated 12 March 1945, File 158/PWU, Subject: Inventory of High Tension Transformers, Central Italy.

It is suggested that the information mentioned in the reference letter be obtained as soon as possible, since it seems likely that a shortage of high voltage transformers will be one factor limiting the availability of electricity in Central Italy.

2. In this connection, it is further suggested that each electric operating company immediately designate sufficient competent technical personnel to study the most effective means of utilizing all transformers, still damaged and unrepaired. This study should consider the question of needed supplies, and repair facilities.

W.M. LAPPER
Lieut-Colonel
Chief Electrical Division

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

Tel. 317

HJR/ao

INTER OFFICE MEMORANDUM

103

Reference : 158/PWU

20 March 1945

Subject : ILVA Steel Works Power Plant - Plombino

To : PINANCE SUB-COMMISSION (Att Major J.R.H. Hall)

From : Public Works and Utilities Sub-Commission

1) - The Ilva Power Plant will be ready to resume operations on approximately the 15th of April. Reconstruction of this project was under the direction of this Sub-Commission. The Ilva Company is not a distributor of power, and the energy generated will be delivered to the Central Italy Grid.

2) - This station is comparatively efficient and it is planned to operated ten hours daily six days a week at an average rate of 3,000 KW. Under these conditions fuel consumption is estimated to be 40 tons per day.

3) - Operation of this plant is a military necessity, and it is requested that its operation be subsidized by the Italian Government to the extent of furnishing the coal without cost to the Company.

W.M.LAPPER 759
Lt-Colonel
Chief Elec. Div.

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

SECRET

102

158/PWU

28 March 45

Subject : Galleto Power Station

To : CE. AFHQ

ON FILE. 124.

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

General Files

Tel. 478.906

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

VSR/las

101

REFERENCE : 158/PWU

28 March 1945

SUBJECT / Rehabilitation of Pontie no - Riccione Transmission Line.

TO : DGMRS, Transportation Increment.
Att. Major Frank Kubale.

1. Confirming yesterday's telephone conversation between Major Frank Kubale, DGMRS, and Major Vinal S. Benton, Headquarters Allied Commission; it is suggested that repair work be started as soon as possible on the Pontic no - Riccione 150 KV transmission line.

2. Further confirming the above mentioned conversation, it is suggested that an early examination be made of the Riccione frequency changer, to determine the advisability of starting repairs to it.

For the Chief Commissioner

W.M. LAMB
Lieut-Colonel
Chief Electrical Division

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

Tel.489081
Ext.317

WML/ce

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

158/PWU.

26 March 45.

SUBJECT: Thermal Stations Rome.

TO : Ministry of Public Works
(att: Eng. Asta)

1. With reference to a conversation this morning concerning the temporary dam which was fixed across the river Tiber last year for the purpose of increasing the river level at the circulating water pump suction.

2. It is now understood that removal of part of this dam is required in order to improve navigation facilities, but as this will tend to give a lower river level at the pump suction, it is desirable that the Societh Romana Elettricith make a study of the conditions in view of the fact that we may expect a dry period during the coming season.

3. As you know,this generating plant is being operated at a minimum output,in order to conserve fuel supplies, but should any breakdown occur to hydro-plants, it would be called upon to carry the maximum output,and it is therefore necessary that the Company should maintain the plant in good order.

4. While it hardly seems possible to consider the question of selfcleaning revolving screens at this time,in view of the interruptions due to fouling of condenser tubes during the past nine months, it is considered that some improvement in the present arrangement should be effected.

5. Will you please let me know whether there is any assistance which we can give you in this matter which in your opinion requires urgent attention.

W.M. LAPPER,
Lieut-Colonel,
Chief, Elect.Div.

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Tel. 469031
Ext. 317

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

LWL/ac

99

Reference : 158/PWU

26 March 1945

Subject : Power allocation for the month of April 1945

To : REGIONAL COMMISSIONER SOUTHERN REGION
(through Reg. Eng. - Att Maj. R.A.Ryan)

REGIONAL COMMISSIONER LAZIO UMBRIA REGION
(through Reg. Eng. - Att. Capt. E.P. Wade-Brown)

REGIONAL COMMISSIONER MARCHE ABRUZZI REGION
(through Reg. Eng. - Att. Maj. Foden)

1) - Enclosed herewith for information is copy of power allocation for the month of April 1945.

By command of Rear Admiral STONE,

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

1 enclosure

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MINISTERO DELLA MARINA
DIREZIONE GENERALE MARINA MERCANTILE

IL DIRETTORE GENERALE

Roma, 6 ottobre 1944

98

158

Prepared for OSS.

Hans
Mr. R.I. COHRSSEN
C.E.W.A.
Via Sicilia, 59 = R O M A =

file central Staty.

Le rimetto, come d'accordo, copia della relazione sulla situazione dell'industria elettrica italiana.

Tale relazione fu compilata tempo fa e considera perciò principalmente i vari problemi quali si erano delineati prima della liberazione di Roma.

Conto di farle pervenire al più presto gli elementi successivi, quali possono essere stabiliti in relazione alle più recenti notizie.

Con molti saluti

Matteini

(Tenente Generale A.N.)
Prof. Dott. Eng. Carlo Matteini

res.

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ASPETTI DELLA ATTUALE SITUAZIONE DELLA INDUSTRIA ELETTRICA ITALIANA E CONCETTI INTRODUTTIVI PER LA RICOSTRUZIONE -

Prima che la guerra passasse sul nostro Paese l'industria elettrica italiana forniva l'energia alla quasi totalità dei comuni per le private utenze, e praticamente a tutte le industrie (un esiguo numero aveva impianti autonomi); era sorta e si era sviluppata una importante industria elettrochimica ed elettrometallurgica, e oltre il 50% del traffico ferroviario veniva effettuato mediante locomotive elettriche.

La industria elettrica disponeva di 5,5 milioni di Kw di impianti idroelettrici e di un milione di Kw. di impianti termoelettrici. La produzione di energia elettrica era pero' quasi totalmente idroelettrica: infatti nel 1942 su di una produzione idroelettrica di 20 miliardi di Kw-ora solo 1,3 miliardi di Kw-ora era di origine termica (occorre tener presente al riguardo che il maggior quantitativo era prodotto nelle isole e che gli impianti geotermici di Larderello in Toscana i quali, come è noto, utilizzano vapori naturali, vi concorrevano per 600 milioni di Kw-ora circa).

La totale produzione idroelettrica era così ubicata: 70% nella catena alpina, 10% nell'appennino settentrionale, e 20% nell'appennino centro meridionale e nelle isole (la produzione degli impianti idroelettrici delle isole è stata pero' sempre assai modesta superando di poco il valore dell'1% della totale produzione

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Alle maggiori disponibilità esistenti nell'Italia settentrionale corrispondevano le maggiori richieste, dato che le piu' importanti industrie erano appunto ubicate nelle regioni settentrionali. Cio' nonostante quantitativi di energia venivano scambiati fra gli impianti alpini e gli impianti dell'Italia centrale, mentre quest'ultima cedeva a sua volta energia alle regioni meridionali.

Oltre questi scambi, che si potrebbero chiamare permanenti, altri a carattere stagionale fra l'Italia settentrionale e quella centro meridionale ebbero a concretarsi in dipendenza del fatto che gli impianti della catena alpina hanno le loro minime produzioni nei mesi invernali, mentre gli impianti della catena appenninica hanno le loro minime produzioni nei mesi estivi. Disgraziatamente la compensazione non ha mai potuto essere totale, in quanto, come si è detto innanzi, gli impianti della catena alpina hanno una produzione di energia più che doppia di quella degli impianti della catena appenninica.

La funzione di vettore tra il Nord ed il Sud è stata assunta prevalentemente dalle linee primarie delle Ferrovie dello Stato a 120.000 Volt Terni - Ancona - Bologna - Verona - Trento. Per estendere quanto più possibile tale compensazione è stata progettata negli anni precedenti l'attuale guerra una grande dorsale a 220.000 Volt che dagli impianti del Lago Molveno doveva giungere fino a Napoli. Di questa linea erano di già pronti ad entrare in esercizio lo scorso anno i tronchi Bussolengo (vicino Verona) Reggio Emilia e quello che da Gal

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leto (Terni) porta a Popoli sul fiume Pescara.

Nei riguardi degli interscambi è da ricordare ancora che la produzione dell'energia non è tutta alla stessa frequenza.

Le frequenze usate sono 50 - 45 - 42 periodi per la normale distribuzione e 16,7 per la trazione elettrica. Grosso modo queste frequenze sono territorialmente così divise: Piemonte, Liguria, Trentino, Toscana, Marche, Umbria, Abruzzi e parte del Lazio ad isole a 50 periodi, la rimanente parte del Lazio e l'Italia meridionale a 45 periodi, Lombardia, Veneto, Venezia Giulia ed Emilia a 42 periodi.

La produzione elettrica italiana è, a seconda della frequenza, così distinta:

a 50 periodi	43%
" 45 "	16%
" 42 "	37%
" 16,7 "	2%
corrente continua	2%
	100%

L'inconveniente della molteplicità delle frequenze è in parte attenuata dal fatto che molte centrali (e in particolare tutte quelle costruite in questi ultimi anni) hanno la possibilità di marciare alle tre frequenze. Disposizioni legislative emanate poco prima dell'armistizio imponevano d'altra parte a tutti gli esercenti di centrali elettriche ed agli utenti la trasformazione dei loro impianti a 50 periodi trascorso

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un certo periodo dopo la fine della guerra.

Nei riguardi dei sistemi organizzativi della produzione di energia elettrica è interessante rilevare che essa è coperta per il 70% da impianti di Società esercenti l'industria elettrica (il 60% da impianti dei grandi raggruppamenti), il 19% da imprese private che utilizzano in tutto od in parte la energia prodotta per loro lavorazioni, il 7% dalle aziende municipalizzate ed il 4% dallo Stato per le sue ferrovie.

In aggiunta agli impianti in esercizio (produzione media annua circa 20 miliardi di Kw-ora) vi erano in Italia impianti idroelettrici in costruzione piu' o meno avanzata per circa 5 miliardi di Kw-ora. Degli impianti in esercizio nel 1942 i principali sono elencati in ordine di salto nell'allegata tabella; per ciascuno impianto è indicata anche la potenza complessiva dell'impianto, nonchè le ore annue di utilizzazione del macchinario.

Tra i molteplici danni che la guerra necessariamente ci ha arrecato è in prima linea quello della distruzione degli impianti elettrici. In un paese come il nostro, dove la quasi totalità delle industrie è servita da energia centralizzata, una notevole parte del traffico ferroviario è normalmente avviata sulle linee elettrificate ed i fertilizzanti per l'agricoltura si ottengono mediante processi elettrolitici, la distruzione degli impianti elettrici vuole dire la paralisi quasi completa di tutte le attività nazionali. Cio' era ben noto ai tedeschi i quali nel ritirarsi hanno dedicato (e

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di centrali elettriche, di linee, di sottostazioni ecc.

Quanto sarà per accadere nelle zone d'Italia ancora da liberare si puo' nelle grandi linee dedurre da quanto è accaduto nell'Italia meridionale.

Nell'Italia meridionale la distribuzione dell'energia elettrica viene effettuata quasi per intero dalle Società del Gruppo Società Meridionale di Elettricità, le quali prima delle ultime distruzioni disponevano di 2 miliardi di Kw-ora con 330.000 Kw installati in impianti idroelettrici e 45.000 Kw nella centrale termoelettrica "Maurizio Capuano" in Napoli. Per la zona di sua influenza il Gruppo Meridionale disponeva inoltre di 50.000 Kw dagli impianti della Società Terni.

La sorte dei principali impianti idroelettrici è stata la seguente:

L'importantissimo gruppo degli impianti Silani (160.000 Kw. e 650.000.000 di Kw-ora annui) è rimasto intatto. Pure immuni sono rimasti gli impianti sul fiume Tanagro (11.000 Kw e 70.000.000 di Kw-ora l'anno), mentre lievi danni facilmente riparabili ha subito l'impianto sul fiume Tusciano (8.000 Kw e 50.000.000 di Kw-ora l'anno).

Tutti gli altri impianti principali (che elenchiamo) sono stati minati dai tedeschi:

Impianto Calore	(10.000 Kw)
Centrale Matese (2)	(18.000 ")
Impianto Garigliano	(10.000 ")
Impianto Lete	(8.000 ")
Impianto Aventino	(8.000 ")
Centrali sul fiume Pescara (4)	(80.000 ")
Centrale termica M.Capuano	(45.000 ")

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E' stata minata del pari la Centrale di Capo Vol-

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turno (20.000 Kw) dell'Ente Autonomo Volturno (energia destinata a Napoli.

Minate sono state anche tutte le principali sottostazioni di trasformazione, alcune delle quali erano già state danneggiate dai bombardamenti. I bombardamenti hanno inoltre danneggiato tutto il sistema di linee di trasporti, mentre la linea a 60 Kw. che alimenta Formia e si collega con le Centrali sul fiume Liri ha subito la distruzione sistematica di tutti i pali da parte dei tedeschi.

Se sempre identica è stata la volontà distruggitrice che ha fatto brillare le mine, non identici sono stati i risultati ottenuti. Mentre infatti per gli impianti Garigliano, Matese 2° Salto, Lete, Aventino e le 4 Centrali Pescara il macchinario e le apparecchiature si debbono ritenere del tutto inutilizzabili, nella Centrale Matese 1° Salto, nella Centrale Calore e nella Centrale Maurizio Capuano le mine hanno arrecato danni che richiedavano (o richiedono) un tempo piu' o meno lungo per venire riparati.

Merce' il valido aiuto di reparti tecnici delle truppe alleate è stato possibile riattivare sia il 1°Salto Matese che due gruppi della Centrale Termoelettrica Maurizio Capuano (per una potenza complessiva di oltre 40.000 Kw).

Anche la riattivazione della Centrale sul fiume Calore è in corso. 779

Analogamente per le sottostazioni si sono presentate situazioni diverse. Mentre la sottostazione di Frattamaggiore, cuore elettrico di tutta l'Italia meridionale è stata completamente distrutta, le altre sono state danneggiate in modo piu' o meno grave, ma solo parzial-

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Come extrapolare alla totale Italia questa esperienza? Nell'Italia meridionale sono stati risparmiati dalle mine tedesche gli importantissimi impianti della Sila e quelli sul fiume Tanagro in quanto i tedeschi non hanno avuto il tempo di distruggerli perchè costretti dall'armistizio del l'8 settembre ad una ritirata frettolosa.

In base a quanto è successivamente accaduto si dovrebbe ritenere che tutti i principali impianti elettrici andranno soggetti a distruzioni e che dei macchinari installati solo una aliquota modesta potrà trovarsi in condizioni di lavoro o facilmente riparabile. Ma se cio' si verificherà quasi certamente in tutti gli impianti dell'Italia peninsulare la quale viene attraversata integralmente dagli eserciti combattenti, è presumibile che nella catena alpina dove sono ubicati i piu' importanti impianti idroelettrici italiani la distruzione non sarà totalitaria.

Nel complesso sembra ragionevole ipotizzare che i maggiori danni si verificheranno nell'Italia centrale, mentre le distruzioni dell'Italia settentrionale dovrebbero limitarsi ad un settore solo. Ma cio' che l'esperienza insegna sopratutto è che i danni alle opere civili sono sempre relativamente modesti e che il tempo di ricostruzione è dato dal macchinario.

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Alla ricostruzione del macchinario idraulico ed elettrico potranno concorrere le industrie italiane ed in quale misura?

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Alla ricostruzione del macchinario idraulico ed elettrico potranno concorrere le industrie italiane ed in quale misura?

Mentre la massima parte delle turbine erano fornite dalla ditta Riva e della "Tosi" le macchine elettriche era-

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no di norma costruite dalla Compagnia Generale di Elettricità, dal Tecnomasio Italiano Brown-Boveri, dall'Ansaldo, dalla Breda, dalla Marelli, dalla San Giorgio. Per gli interruttori concorrevano alla produzione le ditte Magrini, Adda, Scarpa e Magnano e Pellizzari, ecc.

Non si hanno dati precisi sulla potenzialità costruttiva di tutte queste ditte messe insieme, ma è certo che esse sono state in grado negli ultimi anni di far fronte anche a richieste piuttosto intense, dell'ordine di 300.000 KwA. di macchinario installato per la produzione del corrispondente macchinario per il trasporto e l'utilizzazione.

In quale stato si troveranno queste industrie? E' da ritenere che le attrezzature tecniche saranno in parte asportate o distrutte, il personale disperso e non è pertanto possibile di fare un grande assegnamento su di esse, specie per quanto riguarda la costruzione del grande macchinario.

Per contro la mole del macchinario da riparare e da costruire appare ingentissima. Come ordine di grandezza si puo' prevedere che si avranno da affrontare riparazioni piu' o meno profonde di gruppi elettrogeni per 1,5÷2 milioni di KwA, e nuove costruzioni per altrettanto, a cui devesi aggiungere i trasformatori e le apparecchiature delle centrali stesse e delle Sottostazioni (analogo ordine di grandezza per gli impianti utilizzatori). Sembra che siano sufficienti queste cifre di orientamento per concludere che la industria italiana avrà già un compito vastissimo, probabilmente superiore alle sue forze, nelle riparazioni del macchinario e delle apparecchiature ricu-

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Per facilitare la costruzione di questa ingente massa di macchinario (sempre come ordine di grandezza si puo' parlare di I20 - I50 gruppi con potenze variabili da qualche migliaio di KwA a 50.000 KwA., di 4 milioni di KwA di trasformatori e delle relative apparecchiature per la sola industria elettrica) occorrerà che le case costruttrici studino tipi di turbine che funzionino con un rendimento assai prossimo a quello massimo per limitate variazioni nel numero di giri, in modo da poter adottare uno stesso gruppo sotto salti che non differiscono di molto tra di loro (+ 20%). Una prima ricerca sull'allegata tabella delle principali Centrali idroelettriche mostra che per i diversi salti piu' sotto elencati, unità "modali" dell'ordine di 8.000 Kw (I0.000 kvA) potrebbero coprire 700.000 KwA delle unità distrutte. Grosso modo, in relazione ai diversi salti le unità "modali" sarebbero così suddivise:

Salto in metri	numero unità
50	I5
90	I0
I50	I0
250	I0
400	I5
650	I0
	70

746

Sono state manifestamente escluse da questa ricerca le basse cadute, in quanto le turbine relative (in massima parte ruote Kaplan) vanno studiate caso per caso, come pure i pochi salti altissimi e i grandi impianti per i que-

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industria elettrica) occorrerà che le case costruttrici studino tipi di turbine che funzionino con un rendimento assai prossimo a quello massimo per limitate variazioni nel numero di giri, in modo da poter adottare uno stesso gruppo sotto salti che non differiscono di molto tra di loro (+ 20%). Una prima ricerca sull'allegata tabella delle principali centrali idroelettriche mostra che per i diversi salti piu' sotto elencati, unità "modali" dell'ordine di 8.000 Kw (10.000 kVA) potrebbero coprire 700.000 KwA delle unità distrutte. Grosso modo, in relazione ai diversi salti le unità "modali" sarebbero così suddivise:

Salto in metri	numero unità
50	15
90	10
150	10
250	10
400	15
650	10
	70

746

Sono state manifestamente escluse da quesata ricerca le basse cadute, in quanto le turbine relative (in massima parte ruote Kaplan) vanno studiate caso per caso, come pure i pochi salti altissimi e i grandi impianti per i quali occorre adottare macchine di dimensioni notevolmente maggiori di quelle modali; va aggiunto che per diversi im-

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pianti (in particolare in quelli a bassa caduta e ad albero verticale) è presso che inevitabile la ricostruzione di una macchina identica (o quasi) alla distrutta.

Analoghe semplificazioni sia dal punto di vista della spesa che del tempo si possono escogitare per i trasformatori. Il problema si presenta anzi in questo caso assai piu' semplice inquanto manca la variabile peculiare di ciascun impianto, cioè il salto.

Si ritiene, come si è detto, che i trasformatori occorrenti alle sole Società Elettriche potranno raggiungere la potenza di 4 milioni di KWA. Dette unità andrebbero ordinate per le tensioni unificate (norme A.E.I.) e per un numero assai ristretto di potenze quali:

30.000	KWA.
15.000	"
10.000	"
5.000	"

(a parte i trasformatori per la distribuzione che potrebbero normalizzarsi sui tipi 1000 - 500 - 200 - 50 KWA).

Il carattere introduttivo della presente nota consiglia di non soffermarsi sulle costruzioni che diremo accessorie, come gli interruttori (il cui fabbisogno, per i soli impianti di alta tensione potrà superare i 3.000) come su tutta la apparecchiatura da quadro (coltelli, sezionatori, scaricatori, relais ecc) e sugli strumenti di misura (voltmetri, amperometri, wattmetri, contatori, venturimetri, indicatori di livelli, macchinario per trasmissione di misu-

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spesa che del tempo si possono escogitare per i trasformatori. Il problema si presenta anzi in questo caso assai piu' semplice inquanto manca la variabile peculiare di ciascun impianto, cioè il salto.

Si ritiene, come si è detto, che i trasformatori occorrenti alle sole Società Elettriche potranno raggiungere la potenza di 4 milioni di KwA. Dette unità andrebbero ordinate per le tensioni unificate (norme A.E.I.) e per un numero assai ristretto di potenze quali:

30.000	KwA.
15.000	"
10.000	"
5.000	"

(a parte i trasformatori per la distribuzione che potrebbero normalizzarsi sui tipi 1000 - 500 - 200 - 50 KwA).

Il carattere introduttivo della presente nota consiglia di non soffermarsi sulle costruzioni che diremo accessorie, come gli interruttori (il cui fabbisogno, per i soli impianti di alta tensione potrà superare i 3.000) come su tutta la apparecchiatura da quadro (coltelli, sezionatori, scaricatori, relais ecc) e sugli strumenti di misura (voltmetri, amperometri, wattmetri, contatori, venturimetri, indicatori di livelli, macchinario per trasmissione di misure a distanza ecc.)

Per quanto invece riguarda i trasporti è forse opportuno rilevare che bisognerà rifare totalmente (tenendo conto anche dei tratti che sono stati "cannibalizzati" per

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ripristinare delle linee che occorreva rimettere in esercizio con estrema urgenza) circa 10.000 Km. di linee ad alta tensione. Un fabbisogno di circa 30.000 Km. di conduttori, distinti nelle 4 o 5 sezioni normalizzate dal Comitato Elettrotecnico Italiano è ragionevolmente prevedibile: occorreranno inoltre pali a traliccio per 80.000 tn. (che probabilmente potranno essere forniti dalle nostre industrie), isolatori per 2.000.000 di elementi (anche questi potrebbero essere forniti dalle nostre ditte Ginori e Verbano se non eccessivamente danneggiate) 200.000 morsetti ed oltre 1 milione di giunti.

Fra i fabbisogni per cui appare necessario il ricorso alla grande industria americana sono infine da ricordare, almeno per un primo rifornimento, le lampade elettriche, sia per circuiti in serie (illuminazione pubblica) sia per circuiti in derivazione. Il fabbisogno per un anno di dette lampade si aggirava sui 50.000.000 di unità.

Come si è già detto, ai costruttori italiani appare opportuno affidare prevalentemente la riparazione di tutto il macchinario e le apparecchiature che la guerra avrà danneggiati, ma non resi del tutto inutilizzabili. Giova pero' subito avvertire che, a parte le asportazioni, le distruzioni che potranno aver subito e il conseguente aiuto per la ricostituzione delle loro attrezzature (macchine utensili, apparecchiature, ecc.) le nostre case costruttrici avranno, specie in un primo tempo, urgentissimo bisogno di materiali e prodotti speciali.

Prendendo a base uno studio già fatto per l'Italia meridionale, si possono elencare materiali e quantitativi

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Comitato Elettrotecnico Italiano è ragionevolmente prevedibile: occorreranno inoltre pali a traliccio per 80.000 tn. (che probabilmente potranno essere forniti dalle nostre industrie), isolatori per 2.000.000 di elementi (anche questi potrebbero essere forniti dalle nostre ditte Ginori e Verbano se non eccessivamente danneggiate) 200.000 morsetti ed oltre 1 milione di giunti.

Fra i fabbisogni per cui appare necessario il ricorso alla grande industria americana sono infine da ricordare, almeno per un primo rifornimento, le lampade elettriche, sia per circuiti in serie (illuminazione pubblica) sia per circuiti in derivazione. Il fabbisogno per un anno di dette lampade si aggirava sui 60.000.000 di unità.

Come si è già detto, ai costruttori italiani appare opportuno affidare prevalentemente la riparazione di tutto il macchinario e le apparecchiature che la guerra avrà danneggiati, ma non resi del tutto inutilizzabili. Giova pero' subito avvertire che, a parte le asportazioni, le distruzioni che potranno aver subito e il conseguente aiuto per la ricostituzione delle loro attrezzature (macchine utensili, apparecchiature, ecc.) le nostre case costruttrici avranno, specie in un primo tempo, urgentissimo bisogno di materiali e prodotti speciali.

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Prendendo a base uno studio già fatto per l'Italia meridionale, si possono elencare materiali e quantitativi come appresso:

- lamierini magnetici	1.000	tonn.
- olio isolante per trasformatori	3.000	"
- isolatori passanti per alte tens.ni	1.000	unità

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- carboni per spazzole di varie dimensioni	30.000 pezzi
- mica in fogli - gradi 3 e 4	2 tonn.
- micanite di vario spessore e tipo	3 "
- mica-carta	1.000 fogli
- nastro mica-seta di varie larghezze e spessori	1.000 Km.
- nastro mica-carta assortito	1.000 "
- nastro Sterling di varie dimensioni	4.000 "
- nastro cotone di vari tipi e dimensioni	6.000 "
- lastre di bachelite di vario spessore variabile da 1" a 1/64"	3.000 mq.
- cotone di titolo 60/80 per ricopertura di fili e piattine	5 tonn.
- cartone press-board in fogli normali assortiti - spessore da 1/64" a 1/8"	100 "
- carta di pura cellulosa di vario spessore per rivestimento di fili e piattine	20 "
- carta per filtri d'olio	50 "

oltre a quantitativi relativamente modesti di:

ferrelaghe e resistenze elettriche, nastri (di pura seta, di seta sterlingata, di carta bachelizzata), tela sterlingata in rotoli, tubi di bachelite, cartone lateroide, gomme isolanti in fogli, linoleum resistente all'olio, vernici (isolante, grigia isolante, bachelite) ed eventualmente i necessari quantitativi di solventi e di glicerina.

Di un altro apporto, che rivestirebbe altresì il carattere di un contributo definitivo alla ripresa della nostra economia, si vorrebbe infine far cenno.

Si è visto come le industrie di costruzioni elettromaccaniche siano quasi totalmente concentrate nell'alta Italia, ed è ovvio considerare che la situazione di in-

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sori	1.000	m.
- nastro mica-carta assortito	1.000	"
- nastro Sterling di varie dimensioni	4.000	"
- nastro cotone di vari tipi e dimensioni	6.000	"
- lastre di bachelite di vario spessore variabile da 1" a 1/64"	3.000	mq.
- cotone di titolo 60/80 per ricopertura di fili e piattine	5	tonn.
- cartone press-board in fogli normali assortiti - spessore da 1/64" a 1/8"	100	"
- carta di pura cellulosa di vario spessore per rivestimento di fili e piattine	20	"
- carta per filtri d'olio	50	"

oltre a quantitativi relativamente modesti di:

ferrolacche resistenze elettriche, nastri (di pura seta, di seta sterlingata, di carta bachelizzata), tela sterlingata in rotoli, tubi di bachelite, cartone lateroide, gomme isolanti in fogli, linoleum resistente all'olio, vernici (isolante, grigia isolante, bachelite) ed eventualmente i necessari quantitativi di solventi e di glicerina.

Di un altro apporto, che rivestirebbe altresì il carattere di un contributo definitivo alla ripresa della nostra economia, si vorrebbe infine far cenno.

Si è visto come le industrie di costruzioni elettromeccaniche siano quasi totalmente concentrate nell'alta Italia, ed è ovvio considerare che la situazione di inferiorità in cui già versava il Mezzogiorno sarà per un non breve periodo aggravata dalle difficoltà dei trasporti. Ora esistono nell'Italia meridionale la Società "Mater" e la Società "O.C.R.E.M." che hanno in Roma e

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in Napoli attrezzature non disprezzabili e suscettibili, specialmente per la "O.C.R.E.N." di notevoli sviluppi. Quest'ultima aveva in tempi normali circa 2000 operai e si era dedicata, come primo programma, alla costruzione di macchine statiche (trasformatori). Ad essa era affidata la riparazione di tutto il macchinario elettrico delle Società facenti capo al Gruppo Società Meridionale mentre la Regia Marina ad essa faceva capo per la riparazione di tutto il macchinario elettrico delle navi di scalo a Napoli. Ditte americane specializzate potrebbero felicemente, a nostro avviso, attraverso intese con le iniziative già esistenti da noi, dare anche in Italia l'apporto auspicato e insieme sviluppare attività basilari per la riuscita di un Paese che vuole risollevarsi nel nuovo clima di libertà.

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Società od Ente	Centrale e fiume	Salto metri	Potenza complessiva in Kw.	Ore di utilizz.
Soc.An. Orobia	Trezzo d'Adda – Adda	7,80	13.000	4.500
Linif.e C.Naz.	Cassano d'Adda– Adda	8,00	9.000	4.700
Soc.Lombarda	Turbigo Sup.– Ticino	8,37	5.000	7.000
S.M.E.	Suio –Garigliano	8,94	9.000	4.100
SOC.An.Costr.Idroel.	Tavagnasco– Dora B.	10,40	4.000	7,500
Soc.El.Alto Adige	Marco (Mori)Adige	10,60	17.000	5.900
Soc.Adriatica El.	Sorio I° salto–Adige	10,68	5.000	3.900
Servizi Mun.Verona	Tombetta– Adige	10,72	5.000	7.700
Soc.Adriat.Elettr.	Sorio II° salto–Adige	11,46	11.000	5.800
Acciaierie Trafil.G. Cravetto.	Gran Vert– Dora B.	12,18	8.000	4.400
Soc.Idr.Piemonte	Carema – Dora B.	13,50	4.000	7.100
Soc.Romana di El.	Ponte Fiume– Liri	15,00	6.000	3.000 °
Soc.Idr.del Grappa	Bassano del Grappa–B.	17,15	6.000	5.400
Soc.Elettr.Valdarno	Nera Montoro– Nera	23,20	17.000	5.500
T e r n i	Cervara – Nera	23,70	9.000	8.500
Soc.Adriat.Elettr.	Plava – Isonzo	24,51	15.000	4.900
S. M. E.	Pescara I° salto–Pesc.	25,60	10.000	7.000
Soc.Prealpina El.	Creva di Luino–Ticino	27,50	12.000	2.700 °
Soc. V o l t a	Bertini – Adda	29,01	10.000	5.700
Soc. Lombarda	Vizzola – Ticino	29,33	33.000	5.800
T e r n i	Papigno Pennarossa–Nera	27,72	6.000	8.300
Soc. V o l t a	Esterle – Adda	38,81	37.000	4.500
S.M.E.	Tanagro I° salto–Tanag.	39,00	2.000	6.000
Governatorato di Roma	Castel Madama–Aniene	40,29	15.000	2.800
Soc.Elettr.Sarda	Santa Chiara d'Ula–Tirso	40,70	20.000	2.400 °
FF. SS.	Pavana – Reno	42,67	12.000	1.200 °
Soc.Adriat.Elettr.	Doblari– Isonzo	42,90	26.000	3.600 °
Consorzio Idroelet. dell'Aniene	Acquoria Vecchia–Aniene	43,63	10.000	?
Acciaierie Falck	Bolfetto–Adda	44,50	9.000	5.000
S.M.E.	IV° Salto Pescara–Pesc.	47,50	25.000	5.800
S.M.E.	III°salto Pescara– "	48,41	28.000	5.000
Soc.Romana di El.	Ceprano – Liri	48,81	15.000	4.500

Company Plant and river Head m. Power produced KW Working hours

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Soc.An. Orobia	Trezzo d'Adda - Adda	7,80	I3.000	4.500	
Linif.e C.Naz.	Cassano d'Adda- Adda	8,00	9.000	4.700	
Soc.Lombarda	Turbigo Sup.- Ticino	8,87	5.000	7.000	
S.M.E.	Suio -Garigliano	8,94	9.000	4.I00	
SOC.An.Costr.Idroel.	Tavagnasco- Dora B.	I0,40	4.000	7.500	
Soc.El.Alto Adige	Marco (Mori)Adige	I0,60	I7.000	5.900	
Soc.Adriatica El.	Sorio I° salto-Adige	I0,68	5.000	9.900	
Servizi Mun.Verona	Tombetta- Adige	I0,72	5.000	7.700	
Soc.Adriat.Elettr.	Sorio II° Salto--Adige	II,46	II.000	5.300	
Acciaierie Trafil.S. Cravetto.	Gran Vert- Dora B.	I2,I8	6.000	4.400	
Soc.Idr.Piemonte	Carema - Dora B.	I3,50	4.000	7.I00	
Soc.Romana di El.	Ponte Fiume- Liri	I5,00	6.000	3.000	(°)
Soc.Idr.del Grappa	Bassano del Grappa-B.	I7,I5	6.000	5.400	
Soc.Elettr.Valdarno	Nera Montoro- Nera	23,20	I7.000	5.500	
T e r n i	Cervara - Nera	23,70	9.000	8.500	
Soc.Adriat.Elettr.	Plava - Isonzo	24,5I	I5.000	4.900	
S. M. E.	Pescara I° salto-Pesc.	25,60	I0.000	7.000	
Soc.Prealpina El.	Creva di Luino-Ticino	27,50	I2.000	2.700	(°)
Soc. V o l t a	Bertini - Adda	29,0I	I0.000	5.700	
Soc. Lombarda	Vizzola - Ticino	29,33	33.000	5.800	
T e r n i	Papigno Fernarossa-Nera	37,72	6.000	8.300	
Soc. V o l t a	Esterle - Adda	38,8I	37.000	4.500	
S.M.E.	Tanagro I° salto-Tanag.	39,00	2.000	6.000	
Governatorato di Ro	Castel Madama-Aniene	40,29	I5.000	2.800	
Soc.Elettr.Sarda	Santa Chiara d'Ula-Tirso	40,70	20.000	2.400	(°)
FF. SS.	Pavana - Reno	42,67	I2.000	1.200	(°)
Soc.Adriat.Elettr.	Doblari- Isonzo	42,90	26.000	3.600	(°)
Consorzio Idroelet. dell'Aniene	Acquoria Vecchia-Aniene	43,63	I0.000	?	
Acciaierie Falck	Boffetto-Adda	44,50	9.000	5.000	
S.M.E.	IV° Salto Pescara-Pesc.	47,60	25.000	5.800	
S.M.E.	III°Salto Pescara- "	48,4I	23.000	5.800	
Soc.Romana di El.	Caprano - Liri	48,8I	I5.000	4.500	

(°)impianti muniti di serbatoio

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Società od Ente	Centrale e fiume	Salto metri	Potenza compless. in Kw.	Ore di utilizz
S.I.P.	Monte Giove- Dora B.	51,00	14.000	4.500
Soc.An.Ind.Trentina	Dro - Sarca	51,40	17.000	4.600
Soc.Roma di Elettr.	Basso Farfa- Farfa	51,85	10.000	2.600
" Dinamo " "	Domodossola- Toce e Di Verla	54,72	10.000	8.000
Trentina	Pies Dro- Sarca	55,90	21.000	3.900 o
Soc.El.Alto Adige	Ponte Gardena- Isarco	60,10	56.000	4.600
FF. SS.	Suviana-Limentra di Treppin	68,17	41.000	2.000 o
Consorzio Bolzano Merano.	Tel - Adige	71,34	23.000	4.400
S.M.E.	II°salto Pescara-Pesc.	75,90	20.000	7.000
Soc.Elettr.Valdarno	Gallicano-Serchio	87,64	20.000	3.500
Soc. " Sarda	Coghinas- Coghinas	90,30	27.000	3.300 o
Azienda elettrica Municipale Milano	Stazzona - Adda	92,92	35.000	2.100 o
Soc.Elettr.Bresciana	Cedegolo - Oglio	97,12	8.000	5.500
Soc.Adriat.Elettrica	Nove - Piave	99,00	64.000	3.100 o
Soc.Elettr.Bresciana	Vobarno- Oglio	104,82	29.000	3.700 o
Soc.Adriat.Elettrica	Canova - Piave	105,00	34.000	5.000
Soc. " Elettrica	Fadalto - Piave	106,00	86.000	2.600 o
Comp.Impr.El.Liguri	Airole - Roia	110,30	11.000	3.000
Comp.Impr." Liguri	Confine - Roia	119,20	11.000	2.300
Cisalpina	Mezzocorona- Adige	124,15	32.000	6.800 o
Comune Torino	Susa - Dora Riparia	124,20	10.500	6.500
Soc.Elettr.Alto Adige	Marlengo - Adige	129,70	36.000	5.200
Soc.Adriat.Elettrica	Agordo - Piave	135,28	34.000	3.100
Soc.Ind.San Marco	Pelos - Piave	137,00	51.000	2.800 o
Acciaierie Falck	Teglia - Magra	142,22	30.000	3.300 o
Soc.Idr.del Cismon	Moline - Brenta	143,10	16.000	5.200
S.M.E.	Calusia - Ampollino	144,62	40.000	2.800 o
Terni	Preci - Tevere	150,89	9.000	5.500
Terni	Collestatte - Velino	152,94	8.000	?
Terni	Marmore - Velino	159,36	18.000	?
FF. SS.	Bressanone - Adige	159,40	115.000	3.700 o
Soc.Idr.dell'Isarco	Gardano- Adige	164,50	183.000	3.500
Cons.Idr.dell'Aniene	Acquoria Nuova-Aniene	165,28	38.000	4.700
Soc.Romana di Elettr.	Alto Farfa - Farfa	165,47	19.000	2.500
" Dinamo	Piedimulera - Ticino	173,39	13.000	2.400
S.M.E.	Tanagro II° salto-Ta-	176,00	[illegible]	[illegible]

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Soc.An.Ind.Trentina	Dro - Sarca	51,40	17.000	4.600
Soc.Roma di Elettr.	Basso Farfa- Farfa	51,85	10.000	2.600
" Dinamo " " Trentina	Domodossola- Toce e Di	54,72	10.000	8.000
	Pies Tre- Sarca	55,90	21.000	3.900 o
Soc.El.Alto Adige	Ponte Gardena- Isarco	60,10	56.000	4.600
FF. SS.	Suviana-Limentra di Treppia	65,17	41.000	2.000 o
Consorzio Bolzano Metano.	Tel - Adige	71,34	23.000	4.400
S.M.E.	IIºsalto Pescara-Pesc.	75,90	20.000	7.000
Soc.Elettr.Valdarno	Gallicano-Serchio	87,64	20.000	3.500
Soc. " Sarda	Coghinas- Coghinas	90,30	27.000	3.300 o
Azienda elettrica Municipale Milano	Stazzona - Adda	92,92	35.000	2.100 o
Soc.Elettr.Bresciana	Codegolo - Oglio	97,12	8.000	5.500
Soc.Adriat.Elettrica	Neve - Piave	99,00	64.000	3.100 o
Soc.Elettr.Bresciana	Volbarno- Oglio	104,82	29.000	3.700 o
Soc.Adriat.Elettrica	Caneva - Piave	105,60	34.000	5.000 o
Soc. " Elettrica	Fadalto - Piave	106,00	86.000	2.500 o
Comp.Impr.El.Liguri	Airole - Roia	110,30	11.000	3.000
Comp.Impr." Liguri	Confine - Roia	119,20	11.000	2.300
Cisalpina	Mezzocorona- Adige	124,15	32.000	6.800 o
Comune Torino	Susa - Dora Riparia	131,26	10.300	6.500
Soc.Elettr.Alto Adige	Marlengo - Adige	133,70	36.000	5.200
Soc.Adriat.Elettrica	Agordo - Piave	135,28	34.000	3.100
Soc.Ind.San Marco	Pelos - Piave	137,00	51.000	2.800 o
Acciaierie Falck	Teglia - Magra	142,22	30.000	3.300 o
Soc.Idr.del Cismon	Moline - Brenta	143,10	16.000	5.200
S.M.E.	Calusia - Ampollino	144,62	40.000	2.800 o
Terni	Preci - Tevere	150,89	9.000	6.300
Terni	Collestatte - Velino	152,94	8.000	?
Terni	Marmore - Velino	159,36	18.000	?
FF. SS.	Bressanone - Adige	159,40	115.000	3.700 o
Soc.Idr.dell'Isarco	Cardano- Adige	164,50	183.000	3.500
Cons.Idr.dell'Aniene	Acquoria Nuova-Aniene	165,28	38.000	4.700
Soc.Romana di Elettr.	Alto Farfa - Farfa	165,47	19.000	2.500
" Dinamo	Piedimulera - Ticino	170,39	10.000	2.100
S.M.E.	Tanagro IIº salto-Ta-	176,00	9.000	6.300
Soc. Volta	Crego - Ticino (Toce)	189,91	16.000	4.300
Ente Auton.Volturno	Capo Volturno-Volturno	190,00	20.000	4.000
S.M.E.	Calore - Calore	193,00	17.000	2.300

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

Società od Ente	Centrale e fiume	Salto metri	Potenza compless. in Kw.	Ore di utilizz
Terni	Galleto- Velino	202,50	114.000	7.100 c
Terni	Papigno-Velino-Velino	202,50	55.000	?
Soc.An.Naz.Cogne	Arvià- Dora Baltea	202,95	34.000	3.800
Soc. Volta	Crevola Ticino (Toce)	204,29	35.000	3.600
Comp.Impr.el.Liguri	San Damiano-Maira	205,00	14.000	4.000
Soc.Adriat.Elettr.	Cenconighe- Piave	211,50	21.000	4.500 c
Soc.Forze Idroelettr. della Liguria	Ruffinati-Trebbia	212,00	15.000	4.200 c
Cisalpina	Predare - Secchia	246,56	42.000	?
Soc.Idroel.Marmore	Castiglion Dora-Dora	281,20	25.000	2.800
Costruz.A.Brambilla	Castel Vetres-Dora B.	248,18	17.100	2.800
S.A.Idroel.Sperando	Sperando- Serchio	271,50	12.000	2.000
Soc.Impr.I.Alto Serio	Ludrigno I- II salto Adda	272,43	12.000	3.300
Cisalpina -	Ligonchio- n.2 Sec-	276,40	14.000	1.300
S.M.E.	Clevano- Tusciano	283,87	8.000	6.500
Unes	Cerosa Sup. - Aso	285,50	14.000	3.400
Unes	Vennmartello- Tronto	300,00	16.000	5.200
Unione Interregionale				
Produttori En.Elettr.	Casteldelfino-Varaita	303,00	28.000	1.000 c
Soc.Idroel.del Cismon	San Silvestro-Brenta	308,00	16.000	5.200
Cons.Bolzano e Merano	Senales-Rio di Sena- les	318,76	18.000	5.100
Comune Torino	Chiamonte - Dora Rip.	325,58	19.000	5.900 c
Soc. Emiliana	Fornata -Dragone e	329,55	34.000	2.400
Un.Inter.Prod.Ener.El	Sampeire- Varaita	330,00	35.000	1.900
FF. SS.	Anversa Princ.-Sagit-	337,28	30.000	2.400 c
Ovesticino	Galera- Stura Pallo.	348,90	18.000	3.400
S.M.E.	Matese 2° salto	354,21	8.000	3.200 c
Cisalpina	Arco (Prati) Vizzo	356,58	25.000	4.800
Comp.Impr.El.Liguri	Saretto- Maira	367,66	19.000	2.100
S.M.E.	Aventino	372,71	10.000	3.900
Cisalpina	Sonico - Oglio	440,00	60.000	3.700
Dinamo	Varzo- Ticino	458,19	25.000	2.800 c
Soc.An.Naz. Cogne	Champagne- Dora B.	464,64	13.000	6.800
S.M.E.	Orichalla	467,72	58.000	2.600 c
Volta	Feltrinelli - Toce	468,74	42.000	6.800
Soc.An.Crotta	Coremmo Plinio-Varro- ne	473,95	12.000	3.100
Cisalpina	Cedegolo-Lago Baitone	478,31	34.000	6.800 c

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

Soc.An.Naz.Cogne	Arvie- Dora Baltea	202,95	34.000	3.800	
Soc. Volta	Crevola Ticino (Toce	201,29	35.000	3.600	
Comp.Impr.el.Liguri	San Damiano-Maira	205,00	14.000	4.000	
Soc.Adriat.Elettr.	Cencenighe- Piave	211,50	21.000	4.500	o
Soc.Forze Idroelettr. della Liguria	Ruffinati-Trebbia	212,00	15.000	4.200	o
Cisalpina	Predare - Secchia	246,56	42.000	?	
Soc.Idroel.Marmore	Castiglion Dora-Dora	281,20	25.000	2.800	
Costruz.A.Brambilla	Castel Verres-Dora B.	248,16	17.100	2.800	
S.A.Idroel.Sperando	Sperando- Serchio	271,50	12.000	2.000	
Soc.Impr.I.Alto Serio	Ludrigno I- II salto Adda	272,43	12.000	3.300	
Cisalpina -	Ligonchio- n.2 Sec-	276,40	14.000	1.800	
S.M.E.	Clevano- Tusciano	282,87	8.000	6.300	
Unes	Cerosa Sup. - Aso	285,50	14.000	3.400	
Unes	Vennmartello- Tronto	300,00	16.000	5.200	
Unione Interregionale Produttori En.Elettr.	Casteldelfino-Varaita	303,00	28.000	1.000	o
Soc.Idroel.del Cismon	San Silvestro-Brenta	208,00	16.000	5.200	
Cons.Bolzano e Merano	Senales-Rio di Sena- les	318,76	16.000	5.100	
Comune Torino	Chiamonte - Dora Rip.	325,58	19.000	5.900	o
Soc. Emiliana	Parmeia -Dragone e	329.55	34.000	2.400	
Un.Inter.Prod.Ener.El.	Sampeire- Varaita	330.00	35.000	1.900	
FF. SS.	Anversa Prino.-Sagit-	337,28	30.000	2.400	o
Ovesticino	Galera- Stura Mario.	348,90	16.000	3.400	
S.M.E.	Matese 2° salto	351,21	8.000	3.200	o
Cisalpina	Arco (Prati) Vizze	359,50	25.000	4.600	
Comp.Impr.El.Liguri	Soretto- Maira	367,55	19.000	2.100	
S.M.E.	Aventino	372,71	10.000	3.900	
Cisalpina	Sonico - Oglio	410,00	60.000	3.700	
Dinamo	Varzo- Ticino	458,19	25.000	2.800	o
Soc.An.Naz. Cogne	Champagne- Dora B.	464,64	17.000	6.800	
S.M.E.	Orichella	467,72	58.000	2.600	o
Volta	Feltrinelli - Toce	468,74	42.000	4.200	
Soc.An.Crobia	Coremmo Plinio-Varro- ne	473.95	12.000	3.100	
Cisalpina	Cadegolo-Lago Baltone	478.31	34.000	5.800	o
Isorno Soc. An.	Isorno - Isorno	479,04	13.000	2.900	o
S.M.E.	Matese I salto	473,18	11.000	3.300	o
Soc.An. Crobia	Regoledo -Ritto di Ce- rola	480,00	15.000	2.800	

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

Società od Ente	Centrale e fiume	Salto metri	Potenza compless. in Kw.	Ore di utilizzaz.
Soc.Idro Marmore	Maen - Dora Baltea	483,45	43.000	1.800 c
Soc. Lombarda	Mallero I salto-M.	495,00	24.000	3.500 c
Cvesticino	Grotti Usseglio-La-	499,18	I6.000	3.000 c
Soc.El.Bresciana	Paffobia-Paffobia	502,50	6?000	4.550
Az.El.Munic.Milano	Roasco Inf.-Roasco	5I0,00	24.000	2.000
Az.El.Munic.Milano	Isolaccia- Fraele	5II,00	88.000	1.200 c
Volta	Goglio - Devero	528,98	50.000	1.500 c
Volta	Colombo (Cvesca)-Ti-	529,24	27.000	3.800
Sip.	Ponte S.Martino- Lys	54I,07	80.000	4.600 c
S.M.E.	Timpagrande	54I,I7	86.000	4.500 c
Cvesticino	Pian Sulé-Laghi del-	543,50	6.000	3.I00
Soc.An.Idr.Monviso	Calcinere-Chiusa Lanta	545,75	24.000	2.700
Soc.Naz. Cogne	Chavonne-Grand Eyvia	55I,63	24.000	2.600
Soc. Lombarda	Bordogna-Brembo di	552,45	32.000	3.I00
Soc.Idr.Marmore	Covalou- Dora B.	559,70	46.000	2.800
Volta	Conti Verampio-Devero	572,53	2I.000	3.900
S.M.E.	Lete - Lete	575,84	I0.000	1.900 c
S.A.El.Ponale	Riva -Lago di Ledro	58I,80	58.000	2.000
Cisalpina	Paisco- Allione e Sc	582,23	8.000	3.800
Soc. Lombarda	Carona - Adda	600.00	2I.000	1.900 c
Sip.	Isollaz - Lvancon	60I,37	33.000	4.800
Cisalpina	Pozzolago- Rivo Re-	604,42	II.000	2.700
Cisalpina	Malga Mare-Rivo Care-	62I,47	I2.000	1.700 c
FF. SS.	Bardonecchia-Dora R.	650.00	22.000	3.600 c
Soc.Prealpina	Maccagno-Ticino	695.00	5.000	I.600 c
Acciaerie Falck	Campo - Adda	700.00	43.000	1.700 c
Soc. Volta	Pirelli- Rovesca-Ti-	702,20	30.000	3.I00
Soc.An.Orobia	Gerola Alta- Adda	703.00	I4.000	8.700 c
Comp.Impr.El.Liguri	San Dalmazzo-Roia.	7I3,50	39.000	1.600 c
Sip	Cresagney-Trinità-	7I7.30	I5.000	1.400 c
Acciaierie Falck	Venina - Adda	7I9,50	55.000	2.I00
Soc.Allum.Ital.	Hone - Dora Baltea	745.00	1.000	5.600 c
Cisalpina	Cogolo- Adige	762,30	35.000	2.900
Cisalpina	S.Francesco-Adda	769,45	I40.000	2.200 c
Cisalpina	Temu' - Oglio	775,75	47.000	1.300 c
Acciaierie Falck	Armisa - Adda	803.I0	I0.000	1.600 c
Comune di Torino	Rosone - Orco	8I2,70	54.000	2.700 c
Soc. Volta	Ponte - Ticino	877,50	75.000	1.600 c
Cisalpina	Isola - Oglio	9I5,80	47.000	4.400 c
Scc.An. Orobia	Grossi- Adda	956.40	30.000	2.600 c

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

Soc. Lombarda	Malcrò I salto-M.	495,00	24.000	3.500	c
Ovesticino	Grotti Usseglio-La-	499,18	I6.000	3.000	c
Soc.El.Bresciana	Pallobia-Pallobia	502,50	6?000	4.550	
Az.El.Munic.Milano	Roasco Inf.-Roasco	5I0,00	24.000	2.000	
Az.El.Munic.Milano	Isolaccia- Fraele	5II,00	88.000	1.200	c
Volta	Goglio - Devero	528,98	50.000	1.500	c
Volta	Colombo (Ovasca)-Ti-	529,24	27.000	3.800	c
Sip.	Ponte S.Martino- Lys	54I,07	80.000	4.600	c
S.M.E.	Timpagrande	54I,17	36.000	4.500	c
Ovesticino	Pian Sulé-Laghi del-	543,50	6.000	3.I00	
Soc.An.Idr.Monviso	Calcifere-Chiamlenta	545,75	24.000	2.700	
Soc.Naz. Cogne	Chavonne-Grand Eyvia	55I,63	24.000	2.600	
Soc. Lombarda	Bordogna-Frambo di	552,45	32.000	3.I00	
Soc.Idr.Marmore	Covalou- Dora B.	559,70	46.000	2.800	
Volta	Conti Verampio-Devero	572,53	2I.000	3.900	
S.M.E.	Lete - Lete	575,84	I0.000	1.900	c
S.A.El.Ponale	Riva -Lago di Ledro	58I,80	58.000	2.000	
Cisalpina	Paisco- Allione e Se	582,23	8.000	3.800	
Soc. Lombarda	Carona - Adda	600.00	2I.000	1.900	c
Sip.	Isollaz - Evancon	60I,87	33.000	4.800	
Cisalpina	Pozzolago- Rivo Re-	604,42	11.000	2.700	
Cisalpina	Malga Lare-Rivo Care-	62I,47	I2.000	1.700	c
FF. SS.	Bardonecchia-Dora R.	650.00	22.000	3.600	c
Soc.Prealpina	Maccagno-Ticino	695.00	5.000	I.600	c
Acciaerie Falck	Campo - Adda	700.00	43.000	1.700	c
Soc. Volta	Pirelli- Novesca-Ti-	702,20	30.000	3.I00	
Soc.An.Orobia	Gerola Alta- Adda	703.00	I4.000	8.700	c
Comp.Impr.El.Liguri	San Dalmazzo-Roia.	7I3,50	39.000	1.600	c
Sip	Grassoney Trinité-	7I7.30	I5.000	1.400	c
Acciaierie Falck	Venina - Adda	7I9,60	55.000	2.I00	
Soc.Allum.Ital.	Hone - Dora Baltea	745.00	1.000	5.600	c
Cisalpina	Cogolo- Adige	762,30	35.000	2.900	
Cisalpina	S.Francesco-Adda	769,45	I40.000	2.200	c
Cisalpina	Temu' - Oglio	775,75	47.000	1.300	c
Acciaierie Falck	Armisa - Adda	803,I0	I0.000	1.600	c
Comune di Torino	Rosone - Creo	8I2,70	54.000	2.700	c
Soc. Volta	Ponte - Ticino	877,80	75.000	1.600	c
Cisalpina	Iscla - Oglio	9I5,80	47.000	4.400	c
Soc.An. Orobia	Grossi- Adda	956,40	30.000	2.500	c
Soc. Volta	Campliccioli-Ticino	967,I9	6.000	3.200	c
Cisalpina	S.Bernardo- Adda	I0I4.00	20.000	1.500	c
Az.El.Crespi e C.	Aviasco- Adda	I025,30	6.000	2.200	c
Sip.	Venalzio- Dora Ripa-	I097,70	48.000	2.700	c

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

Tel.489081
Ext.317.

WEL/ee

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

158/PWU

23 March 1945

SUBJECT: Construction of Blast Walls,
Galleto Transformers.

TO : "TERNI" Societa per l'Industria e l'Elettricità,
Papigno (Terni)

1. With reference to the electrical generating plant which is now being put into operation at the Galleto Power Station it is thought that consideration should be given to some form of protection against enemy action.

2. You will fully appreciate the extreme importance of the Galleto Power station in the maintaining of supply of electricity to the Central Italy grid system and we are of the opinion that some form of protection should be provided to guard against splinters from air raids which we must still expect.

3. It is considered that the turbine-building structure is sufficiently strong to guard against damage to plant due to splinters, but the large transformers situated outside this building may be seriously damaged and put the station completely out of operation.

4. As you know we are now getting very short of these large transformers. Many are still waiting to be repaired and in view of this it is important that immediate action be taken to protect those which are at present in operation.

5. Will you take immediate steps to have a suitable blast wall built, in order to provide against this contingency. In order that we may be informed of the arrangement, please keep Capt. Vannoy informed of your plans.

W.M. LAPPER,
Lieut-Colonel,
Chief, Elect. Div.

cc. Italian Ministry of Public Works,
(att: Prof. Ing. A. Asta.
"Terni" Office of Rome)

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

From: Air Forces Sub-Commission, Rome
Chief Electrical Division,

P.W. & O. S/C A.C.
23 MAR 1945 15C

To: Chief Electrical Division,
Public Works and Utility Sub-Commission, Rome
(Attention Major Poole)

96

Date: 18th March, 1945

Ref.:- AFSC/823/10/ENG

C.N.A. FIRM - REQUEST FOR SALVAGE OF TRANSFORMERS

1. We have received a request from "Compagnie Nazionale Aeronautica" (C.N.A. Littorio airfield) to obtain the necessary authority to allow them to salvage three 250 KV. transformers from Littorio airfield. We have asked the Allied Forces Local Resources Section, A.F.H.Q., to grant this authority, and we were told that we should first have your approval.

2. The transformers in question were part of the equipment of the old Transformer Cabin. They have not, as yet, either been requisitioned or employed; they have been frozen.

3. These transformers would be of great use to the above firm; and it should be pointed out that unless they are required for use by the Allied Armed Forces, they are liable to become unserviceable through lack of maintenance, and to the fact (according to information given us) placed in a badly damaged building.

4. We point out that V AVN ENGR AREA (ADV) APO 528, U.S. Army have already given their approval.

5. Would you please let us know whether permission to remove these transformers may be granted.

W.A. Bowen. Brigadier.
736

Enc. 2&3.

W.A.B. BOWEN-BUSCARLET
AIR VICE-MARSHAL
AIR OFFICER COMMANDING

Copy to:

Allied Forces Local Resources Section, A.F.H.Q.

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

Tel.489081
Ext.317.

WML/ce

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

158/PWU.

22 March 1945.

SUBJECT: Larderello.

TO : Regional Commissioner, Toscana Region.

Principe Ginori Conti called here this morning and left the attached letter. We did not enter into any discussion with him and informed him that you were looking into the question of the appointment of a Commissioner to look after the Larderello works.

By command of Rear Admiral STONE:

W.M. LAPPER,
Lieut-Colonel,
Chief, Elect.Div.

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

To ALLIED COMMISSION

ROME

Rome, 22 march 1945

Electrochemical Production of Larderello Co .

As you know the fascist goverment in 1939, took away by requisition the Larderello plants from the Larderel-Ginori Group who in the last 130 years had studied the geyser process, had invented the special turbines and machinery, and built all the existing plants to a such a complete point that since then the State Railways have not built any new plants nor made any new improvements to the existing ones .

Although the Larderel-Ginori Group claimed to be the only and best trained technicians in this geothermic production of electricity and of 5.000 tons per year of boric acid, they were obliged by an unjust fascist law to sign a contract with the State Railways : according to this contract the Larderel-Ginori Group were allowed to own only about 1/3 of the shares, and in the board of directors of 11 members they were allowed to have only 3 members. The State got hold of the majority by stating in that law that all underground resources belonged to the State, and then by giving to the natural geysers the value of 1/5 of the capital.

Now, in a meeting held on February 28, in which a new board of directors was to be appointed, a list had already been prepared of only 8 members of the board, all belonging to the State Railways, while the 3 members of the Larderel-Ginori Group had been wiped out.

This list had been prepared by the same men, that with the same fascist methods of 1939 had got hold of the Larderel-Ginori Company.

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Anyhow the Larderel-Ginori Group cannot believe that the Allies, who are known to be fair and just, can allow that an agreement be annulled by the State Railways in a part of Italy that is not even under the control of the Italian Goverment .

./.

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

So the Larderel-Ginori Group are herewith forwarding a protesta tion to the Allied Commission .

At the same time the Larderel-Ginori Group are informing the Allied Commission that by means of lawyers they have requested the State Railways to respect their engagements of 1939.

The Larderel-Ginori Group would appreciate that the Allied Commission should study the whole problem of the Larderello Works:

- 1°) if Mr. Virgili is a satisfactory technician , he is by no means a good manager, so that most of the workers of Larderello are requesting another man to act as manager.

- 2°) It had been suggested that a Commissioner be appointed at Larderello, and the Larderel-Ginori Group would be fully satisfied if this Commissioner be appointed by the Allied Commission .

- 3°) The agreement of 1939 that the Fascist Minister of Commu_ nications obliged the Larderel-Ginori Group to sign, should be revised according to more just rules, and in order that there may be a full and fair cooperation between the parts .

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

Vol 167

Tel. 489081
Ext. 317

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

WEL/ac

94

21 March 1945

Reference : 051/PWU

Subject : Electricity for civilian purposes

To : MINISTRY OF PUBLIC WORKS
(Attention Eng. A.Asta)

1) - Attached are three copies of a memorandum which has been drawn up for the purpose of clarifying the position regarding applications for electricity for civilian use in Italian Government Territory.

2) - Copies of this memorandum have been circulated to all Military and Allied Commission Officers who may be concerned with this matter and I would suggest that you now notify Electrical Companies, Provincial Commissions, Advisory Committes and Central Commission.

3) - It will be necessary for you to arrange for the Electric Companies to submit applications for electricity in a standard form to the Provincial Commissions giving them dates when they should be posted so as to be in time for the Provincial Commissions' meeting. The Provincial Commissions' meetings should be so arranged so that the applications may be passed to the Advisory Committee on Electric Power and hence to the Central Commission.

4) - What I wish to make clear is that all the arrangments have been completed on the Allied Commission side and it is desirable that the arrangments on the civilian side should be completed as quickly as possible in order to avoid any delay in a supply of electricity being made available to a high priority consumers.

5) - It will be noted under para. 6) that the applications for electricity will be presented to the Electric Power Committee of the A.F.L.E.(I) B. by the A.C. representative. As the AC representative is a member of Industry Sub-Commission, AC, correspondance should be addressed to that Sub-Commission.

732

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

Copy to file 158

3 enclosures

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

93

Subject:- Reconstruction of High Tension Electric Power Lines.

RECEIVED
P.W. & U. S/C A.C.
21 MAR 1945 153

Military Railway Service
C.M.F.
Tele: Firebox 84
Tn.A.3.(E)/22-41A.
19th March 1945.

To:- Director General,
I.S.H., Rome.

Copy to:- Servizio Lavori & Construzioni,
I.S.H., Rome.

Public Works & Utilities Sub-Commission,
A.C. A.P.O. 394; (Reference your letter PWU/158 of 19th March 1945).

(90)

In order that power from Larderello Power Station may be supplied to the electrical network in the Northern part of occupied Italy it is necessary to repair without delay one of the Railway owned High Tension lines connecting Larderello - Vaccina.

Will you please expedite this work and inform me of the expected date of completion.

for Brigadier.,
Director, Military Railway Service.

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

TERNI - SOCIETÀ PER L'INDUSTRIA E L'ELETTRICITÀ

ANONIMA - SEDE LEGALE IN ROMA - DIREZIONE GENERALE IN GENOVA

CAPITALE L. 1.500.000.000

RECEIVED
A.V. & U.S/C.A.
20 MAR 1945
158

Indirizzi:
Ponte Carrillo Postale Terni
Telegr. ELETTROTERNI
Telefono: 58

C. P. E.: Roma 18657 - Genova 12090
Milano 243798 - Perugia 12845
Rieti 6478 - Teramo 20386
Terni 4189
C/C Postale Genova num. 4/526

SERVIZI ELETTRICI

HEADQUARTERS ALLIED COMMISSION
PUBLIC WORKS AND UTILITIES
SUB-COMMISSION
ELECTRICAL DIVISION

R O M A

Via Vittorio Veneto

Papigno, 12/3/1945

Ns. 1334 /Tec.

OGGETTO: Programma lavori di riparazione e montaggio II Gruppo della Centrale di Cotilia.

Vi rimettiamo, in allegato, i programmi di riparazione e montaggio del II Gruppo da 30.000 kVA della Centrale di Cotilia.

Come potete rilevare la possibilità di rispettare i tempi di lavoro previsti è subordinata al trasporto delle nostre Acciaierie di tutti i pezzi della Centrale di Cotilia entro il 10 Marzo corrente.

Distinti saluti.

Allegati vari

Ing. FT/SL

TERNI
SOCIETÀ PER L'INDUSTRIA E L'ELETTRICITÀ

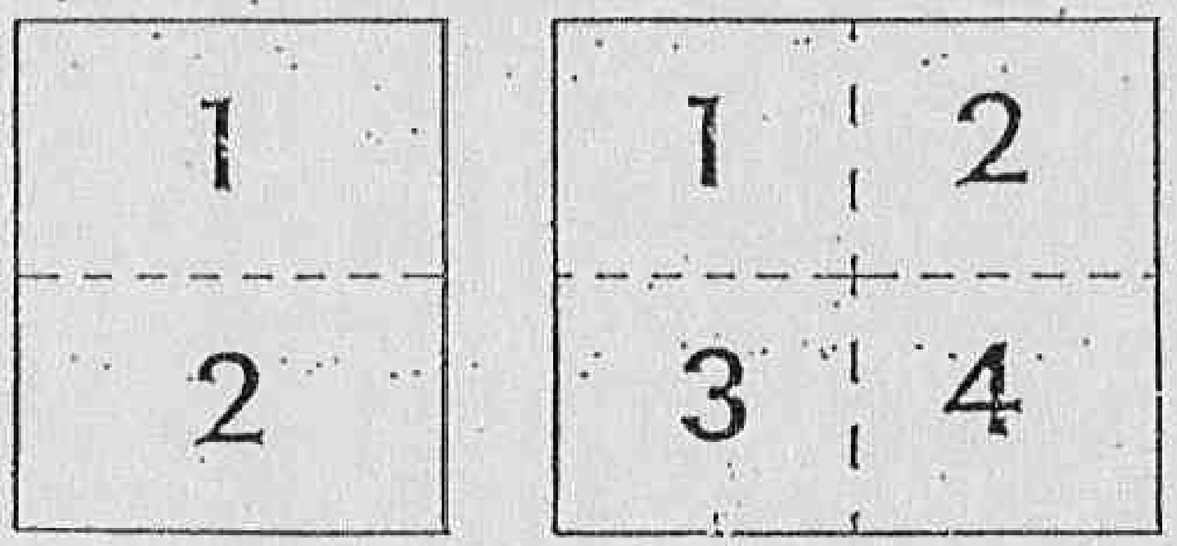
739

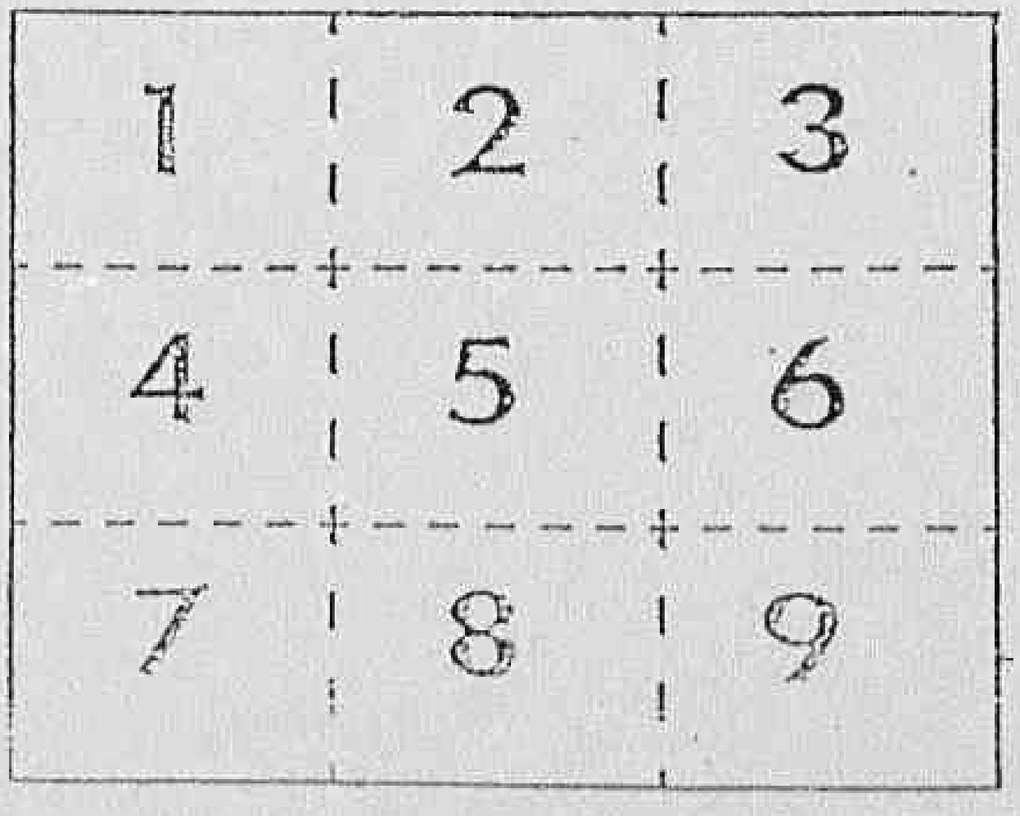
Il foro competente per la decisione di qualunque controversia nel contratto

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

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.





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

SOC. TIRNI

D I A G R A M M I D E I

	DESCRIZIONE DEI LAVORI	FEBBRAIO	MARZO	AP
1	[illegible]			
2	[illegible]			
3	[illegible]			
4	[illegible]			

	DENOMINAZIONE DEI DEZZI	FEBBRAIO	MARZO	AP
1	[illegible]			
2	[illegible]			
3	[illegible]			

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

BK

RNI - CENTRALE DI COTILIA

DEI TEMPI DI

CONSTRUCTION SCHEDULE

RIPARAZIONE ALTERNATO

GENERATOR REPAIRS

MARZO	APRILE	MAGGIO	GIUGNO	

RICOSTRUZIONE PEZZI

MARZO	APRILE	MAGGIO	GIUGNO	

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

NO. 2 UNIT - 30,000 KW

COTILIA 11° GRUPPO 30.000 KW

DI LAVORO -

CONSTRUCTION SEMI-OUTDOOR

ALTERNATORE

GENERATOR STATOR

	GIUGNO	LUGLIO	AGOSTO	SETTEMBRE

PEZZI 11° GRUPPO TURBINE REPAIRS

	GIUGNO	LUGLIO	AGOSTO	SETTEMBRE

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

30.MOTVA

30.000 K.V.A.

ORO - ANNO 1945

AGOSTO	SETTEMBRE	OTTOBRE	NOVEMBRE

POLOS —

AGOSTO	SETTEMBRE	OTTOBRE	NOVEMBRE

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

1	N° LETTERE DISEGNO DELLA TAVOLA
2	CORPO DEL DIFFUSORE ANTERIORE (LATO TURBINA)
3	RUOTA DELLA TURBINA
4	ANELLO DIFFUSORE
5	FORO DI SCARICO (PARTE INTERNA)
6	FORO DI SCARICO PER CORPO ANTERIORE
7	FORO INTERNO PER CORPO DI TENUTA
8	BASE DEL SUPPORTO ALTERNATORE (LATO TURBINA)
9	CARRELLO PER PERNO
10	CUSCINETTO PER PERNO
11	DADI DI TENUTA PER PERNO
12	BASE DEL SUPPORTO ECCITATRICE
13	CARRELLO PER PERNO
14	BOCCOLA DI TENUTA N 2/2
15	CUFFIA DI PROTEZIONE N 2/2
16	SCATOLA RACCOLTA OLIO SUPPORTO DI SPINTA
17	SCATOLA RACCOLTA OLIO SUPPORTO DI SPINTA (LATO ECCITATRICE)
18	BOCCOLA DI TENUTA DEL SUPPORTO DI SPINTA
19	TENUTA A LABIRINTO CON CARBONI
20	ASTA DI COMANDO
21	MONTAGGIO DI GRAFICA DELLA TURBINA

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

[redacted]

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

[redacted]

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

JEFFERSON | MOORE | NOVEMBER

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

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

	TRAFORO A LABIRINTO CON CARBONI
	LISTA DI COMANDO
	MONTAGGIO IN OFFICINA DELLA FORNACE

10 20 28 10 20 31 10

DESCRIZIONE DEI LAVORI	FEBBRAIO	MARZO	APRI
TRASPORTO MATERIALI DELLA FORNACE E RITORNO			
MONTAGGIO IDRAULE			
MONTAGGIO CONDUTTO LATO ALTERNATORE			
MONTAGGIO DISTRIBUTORE			
MONTAGGIO ALBERO CON GIUNTO			
ACCOPPIAMENTO ALBERO TURBINA CON ALBERO ALTERNATORE			
MONTAGGIO CONDUTTO LATO MACCHINA E SCARICO			
MONTAGGIO CONDOTTO DI PRESA E SCARICO			
MONTAGGIO REGOLATORE			
MONTAGGIO REGOLATORE E PULSANTI DI COMANDO			
MONTAGGIO DELLE ASTE SPINATE			
MONTAGGIO RACCORDERIA DELLA CONDOTTA E CAMERA DI REGOLAZIONE			
MONTAGGIO PORTE DI PROTEZIONE ED ALTRE MISTE SIMILARI			

10 20 28 10 20 31 10

2179

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[redacted]

[redacted]

MONTAGGIO II° GRUPPO Assembly of unit

APRILE	MAGGIO	GIUGNO	LUGLIO

[redacted]

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GRUPPO ASSEMBLY OF UNIT

	LUGLIO	AGOSTO	SETTEMBRE	OTTOBRE

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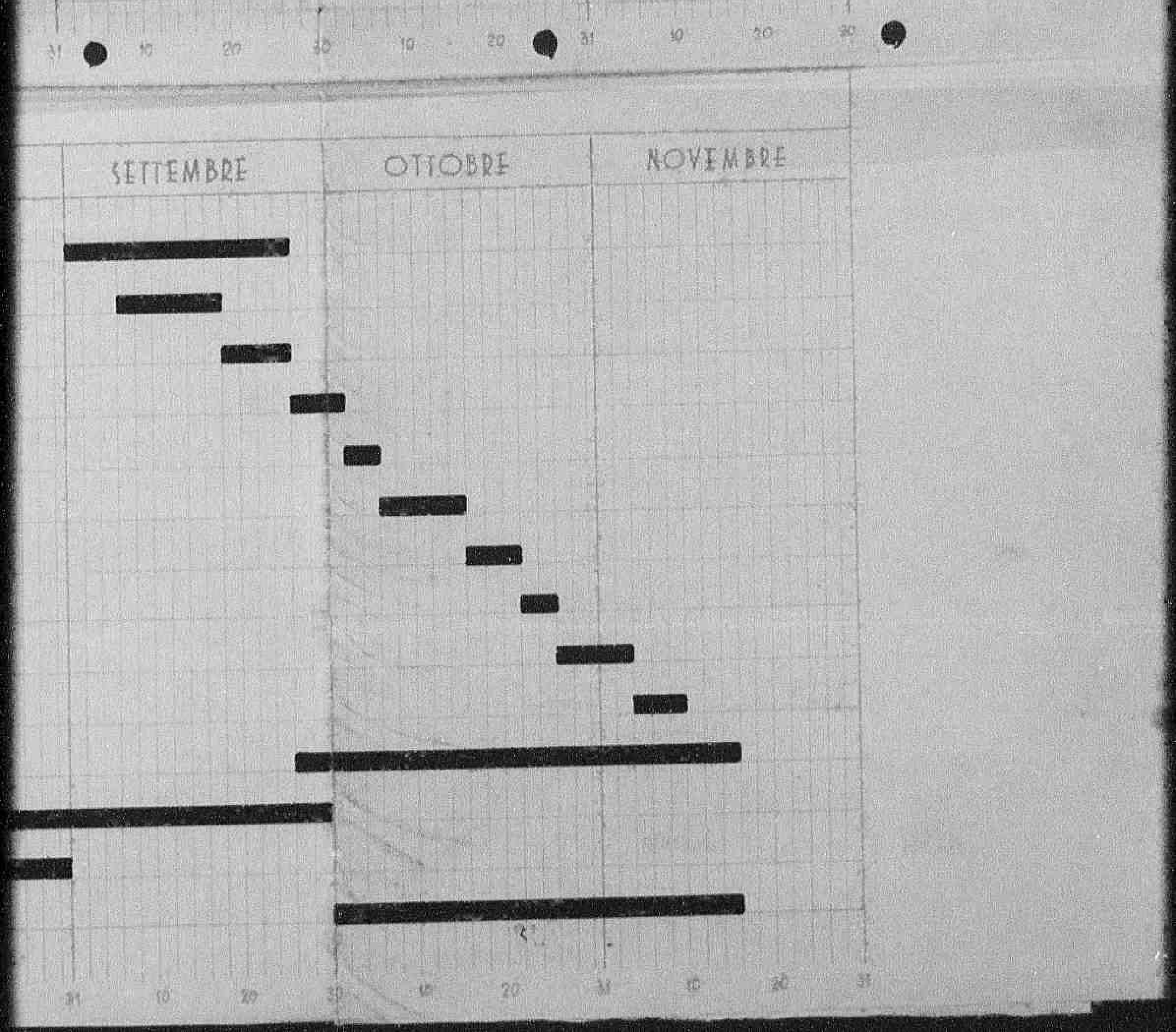

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		TRAFORO MATERIALI PELLA POR. MM A DE F ORSEA			
		MONTAGGIO TRIBALE			
		MONTAGGIO COMPLETO CASSA INTERMEDIA			
		MONTAGGIO DISTRIBUTORE			
		MONTAGGIO ALBERO CON RUOTE			
		MONTAGGIO ALBERO TURBINA CON ALBERO ALTERNATORE			
		MONTAGGIO COMPLETO CASSA TURBINA E ANNESSI			
		MONTAGGIO CORPO DI SCARICO			
		MONTAGGIO SUPPORTO DI SPINTA E ANNESSI			
		MONTAGGIO REGISTRI			
		MONTAGGIO REGOLATORE E TUBAZIONI DI COMANDO			
		MONTAGGIO PELLE PARATIE MOBILE			
		MONTAGGIO REFRIGERANTE ARIA ALBERO MOTORE E CAMERA DI REFRIGERAZIONE			
		MONTAGGIO ROTORE ED ACCOPPIAMENTO DI DUE MEZZI GIUNTI			

729

Non è stato compilato il diagramma di lavorazione della ruota perchè questa non è mai a tata montata. Si ritiene tuttavia che essa potrà essere fornita insieme con l'alternatore.

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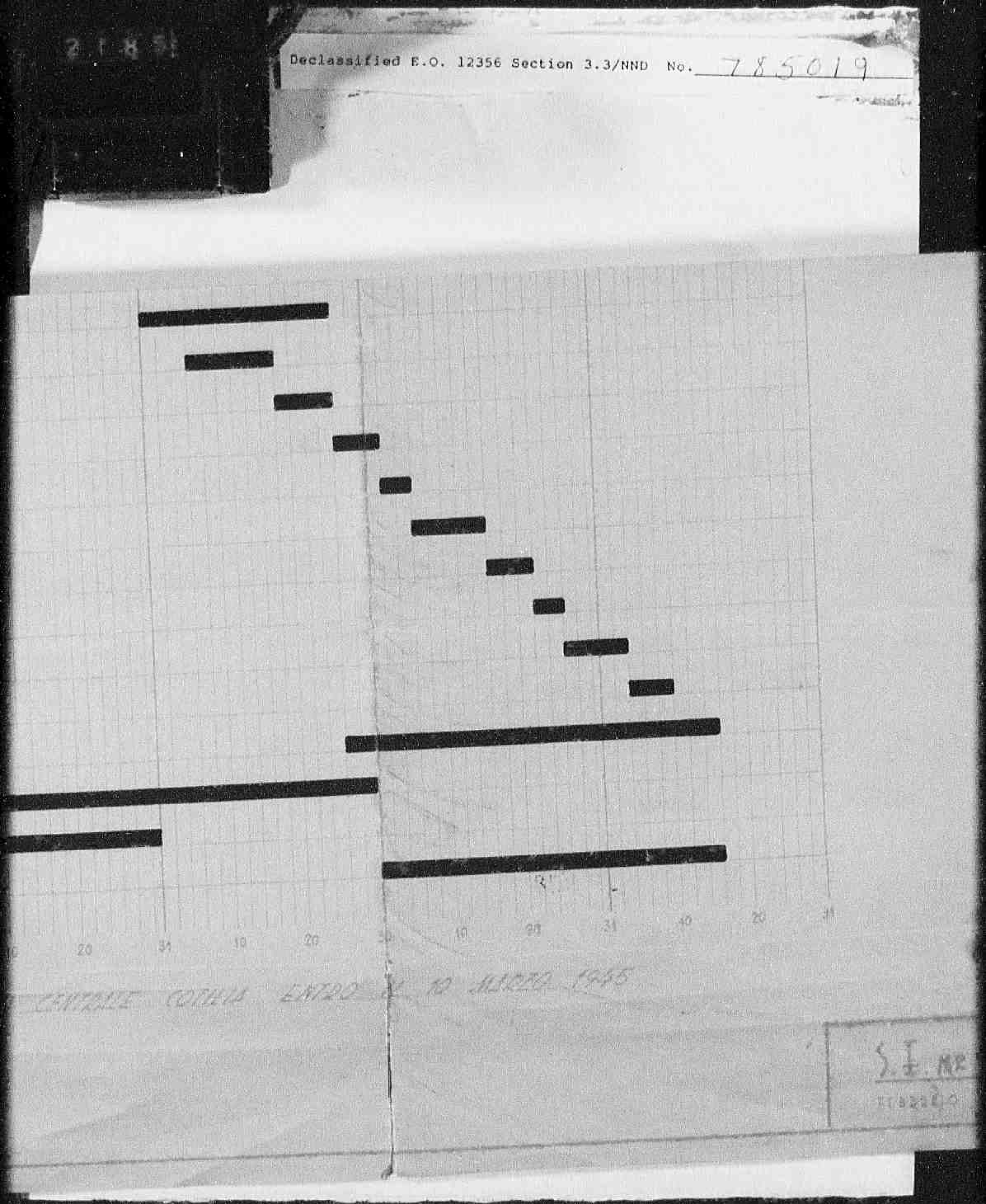
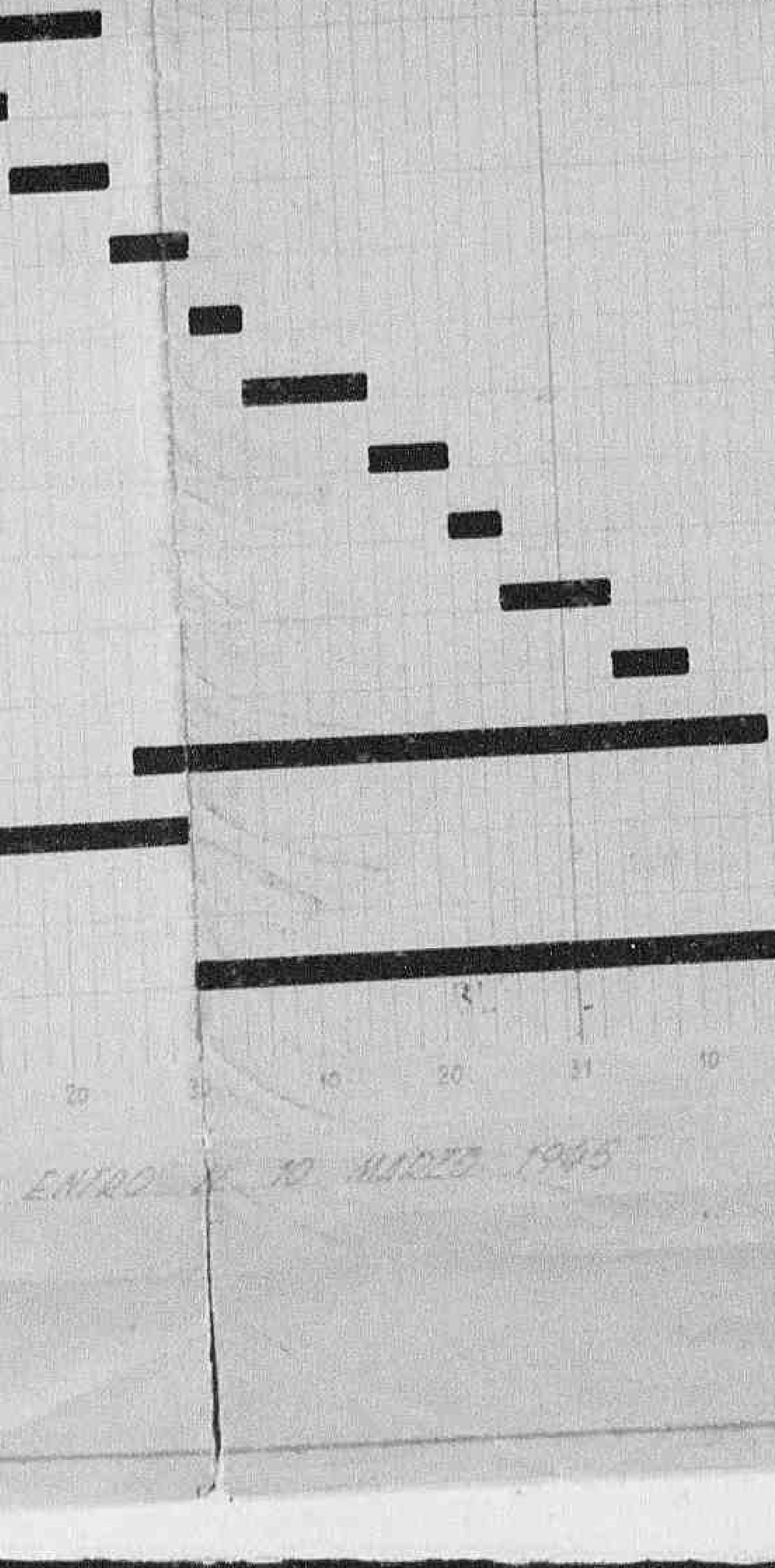


Declassified E.O. 12356 Section 3.3/NND No. 785019



U.S. No. 6315

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

Tel. 478.936

VSR/lam

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

91

153/PtU

21 March, 1945

SUBJECT: Rehabilitation of Orte Transformers

TO : DGMRS, Transportation Increment,
Attention Major Frank Kubale.

1. Confirming yesterday's conversation between Major Frank Kubale DGMRS Transportation Increment and Major Vinal S. Renton, Headquarters Allied Commission, it is now planned to utilize auto-transformers at Terni to obtain a 150 KV power source for the north, rather than to use the 150/120 KV transformer set at Orte Substation of the Italian State Railways. However, it would be appreciated if work were continued at Orte in order that the transformer set may later be used if necessary.-

For the Chief Commissioner.

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

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

Tel. 4.0.306

MAIN GARRISON ALLIED COMMISSION
APO 394
Public Works and Utilities Sub-Commission

VAW/mm

90

/mmu 158

19 March 1945

SUBJECT : Rehabilitation of Lardarello - Cascina Electric Transmission line.

TO : DCMIS, Transportation Increment,
Att. Major Frank Rubale.

1. The Advisory Committee for Electricity Central Italy, at its March meeting, held today, recommended the early rehabilitation of one circuit of the Lardarello - Cascina 132 kV transmission line. Utilization of this line will permit the sending of a large block of power from Lardarello to the north.

2. It is understood from today's conversation between Major Frank Rubale of your office, and Major Vinal Renton, Fifth Headquarters, that a contract is about to be let for this work.

3. It would be appreciated if this project were expedited as much as possible.

W.M. LARNED
Lt-Colonel
Chief Electrical Div.

93 refers

727

File
Electricity
Central Italy
Terni

89

All Italians must know!

Behind the scenes of Terni Company.

To direct Terni Co., it remains protected and undisturbed the extra-fascist Prof. Eng. Girolamo Ippolito with his collaborators.

The ministers, newspaper men and Party leaders are asleep.

Engineers Bronzini and Martinelli, who during nazi-fascist occupation, collaborated with the German Command in the province of Rieti, following the order of Prof Ippolito, Bixio, Bochicchio and Pietromarchi, constructed launching platforms and other worse things against the Allies; they tortured the unhappy people of Rieti with the compulsory work-service and delivering daily to the teutonic Mayer the names of italian saboteurs who had to defend the Terni national industry, so destroying the silent work of the military antisabotage which was an integral part of C.N.L (Committee of National Liberation), under the command of General Cortellessa.

But perhaps prof. Girolamo Ippolito was doing a double game?

Bronzini & Martinelli, although one of them is absconding (but often is at Via Due Macelli 66 - 4th floor - Central Office), are delivered up to justice and are responsible of violation

726

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But perhaps prof. Girolamo Ippolito was doing a double game?

Bronzini & Martinelli, although one of them is absconding (but often is at Via Due Macelli 66 - 4th floor. Central Office), are delivered up to justice and are responsible of violation of article V.

But Prof. Ippolito wants to destroy at any rate the public action of legal men.

Prof. Ippolito Girolamo is doing every effort by bribing with money lawyers and newspaper men in order to defend, in the person of the above mentioned collaborators, his own person who is the responsible; he's as well generous with Bronzini and Martinelli families by allowing them large

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amounts of money. Rome newspapers do know everything about Terni Co, but Prof Ippolito imposes silence by means of a magic misterious power. Workers who prosecuted Engineers Bronzini and Martinelli were ordered to withdraw the prosecution already made in Rieti, in order not to be dismissed.

What is the Procuratore Generale waiting for, in order to issue an arrest warrant against Prof. Girolamo Ippolito?

Prof Ippolito too is responsible of violation of article V, he himself more than the others

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Copy for Col. Lapper

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F.W.A.U.S/C.A.C.
17 MAR 1945 158

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

Florence, 6 Via Cerretani
Telephone nº 1153
15th March 1945

SUBJECT: Repairs to Marzocco Power Station

Ref. : V/3 AED/ab

TO : Naval Officer in charge
Navy House - Leghorn

1. It is requested that the rehabilitation of subject generating station be undertaken as a project of the Royal Navy in accordance with the conditions contained in your letter of 13th March 1945, File nº 132/9.

2The terms as stated have been discussed with Valdarno officials and are entirely satisfactory to them and to the Allied Commission. The Valdarno Company and Cantiere Orlando having previously been in accord with regard to boiler repair, it is suggested that this work begin as soon as possible. Upon receipt of your advice as to when it is most convenient, arrangements will be made for representatives of this office and Selt-Valdarno to meet with your own representatives to determine the full extent of work to be undertaken.

3. Central Italy being largerly dependent on water-power which decreases considerably toward the end of summer, it is hoped that this power plant will be able to play an important part in supplanting the electric power available for military and other essential needs at that critical time. Liaison as required will be maintained by this office and its full and complete co-operation in any way possible extended.

ADVANCED SECTION ELECTRICAL DIVISION

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

Copy to: Lt-Col. Lapper
Lt-Col. Cooley
Selt-Valdarno Co.

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

Copy Office of the Naval Officer in charge
LEGHORN
13th March 1945

No. 132/9.
Public Works & Utilities Sub Commission
Allied Commission,
Advanced Section - Florence

REPAIRS TO MARZOCCO POWER STATION (MESSRS SELT-VALDARNO)
LEGHORN

With reference to the visit of your representative concerning the Marzocco Power Station repairs can be effected under the following conditions:-

a) Work to be undertaken by the Royal Navy employing the resources of the Odero-Terni-Orlando Shipyards.

b) Unskilled labour to be supplied by Selt-Valdarno.

c) Work will not be allowed to prejudice operational needs.

d) Assistance to obtain supply of any controlled material necessary to effect repairs may be required from Allied Commission.

e) No guarantee of completion will be given, though every effort will be made to expedite and complete work undertaken. Seven days notice would be given should the Royal Navy, for any reason, have to withdraw its labour. In the event of such a position arising, Messrs Odero-Terni-Orlando would be in position to complete the work as private contractors.

f) Work to be undertaken to be agreed upon site by interested parties.

g) The accounting to be done on the basis of:

1) Effective working hours workmen are employed. Allied Forces wage scale rates are paid.
2) Cost of materials used.
3) Overhead expenses calculated on actual outgoings incurred.

h) Messrs Selt-Valdarno to be liable for building repairs effected.

CAPTAIN.

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

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P.W. & U. S/C A.C.
17 MAR 1945 158

Indirizzo telegrafico: AGEA - Roma
Telefoni dello Stato: 43.543-43.544
Conto Corrente Postale: 1.2902

87

AZIENDA GOVERNATORIALE
ELETTRICITÀ ED ACQUE

GESTIONE UNICA TERMICA
- A.C.E.A. = S.R.E. -

ROMA, (195) 14 marzo 1945 ~~Anno XX~~
VIA MILANO, 62

N. 2042 di prot.

OGGETTO : Sbarramento del Tevere presso le centrali termoelettriche in relazione alla navigabilità del fiume.

H.Q. ALLIED COMMISSION PUBLIC WORKS & UTILITIES
S.C. ELETTRICAL SECTION - Via Veneto -
R O M A

e, per conoscenza :

SPETT. DIREZIONE A. C. E. A. - Via Milano n. 62 -
R O M A

SPETT. DIREZIONE S. R. E. - Piazza Poli n. 14 -
R O M A

Si segnala a cotesta Commissione quanto segue :

1°) - nello scorso agosto la A.C.C. provvide a costruire uno sbarramento con sacchi a terra contenuti in cassoni, allo scopo di sovralzare il pelo liquido in corrispondenza alla stazione di pompaggio della Società Romana di Elettricità (S.R.E.), onde evitare durante le magre del fiume, l'emersione degli aspiranti delle pompe, nell'interesse dei servizi elettrici della città.

2°) - domenica 11 marzo un motoveliero (Dina) della Società La Ligure Romana che risaliva il fiume diretto al porto fluviale incontrò serie difficoltà per oltrepassare il varco lasciato nello sbarramento. Poichè tale varco è in prossimità della stazione di pompaggio S.R.E., la manovra effettuata destò qualche preoccupazione per la incolumità degli aspiranti delle pompe.

3°) - si segnala quanto sopra per quei provvedimenti (apertura di un secondo varco più adatto per la navigazione) che cotesta Commissione credesse adottare onde contemperare gli interessi dei servizi di navigazione con l'incolumità degli impianti elettrici.

723

GESTIONE UNICA TERMICA
- A.C.E.A. = S.R.E. -
L'INGEGNERE CAPO

Lt Col Rapper
Yes take up with

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

- A.C.E.A. = S.R.E. -

ROMA, (103) VIA MILANO, 62 14 marzo 1945 Anno XX

N. 2042 di prot.

OGGETTO : Sbarramento del Tevere presso le centrali termoelettriche in relazione alla navigabilità del fiume.

H.Q. ALLIED COMMISSION PUBLIC WORKS & UTILITIES
S.C. ELETTRICAL SECTION - Via Veneto -
R O M A

e, per conoscenza :

SPETT. DIREZIONE A. C. E. A. - Via Milano n. 62 -
R O M A

SPETT. DIREZIONE S. R. E. - Piazza Poli n. 14 -
R O M A

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723

GESTIONE UNICA TERMICA
- A.C.E.A. = S.R.E. -
L'INGEGNERE CAPO
[signature]

Lt Col Trapper
Yes take up with Visentini.
[signature] 19/3

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Copy for Col. Lamer

86

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P.W. & U. S/C A.C.
7 MAR 1945 158

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

Florence, 6 Via Cerretani
Telephone nº 1153
13th March 1945

3rd Ind.

Reference: B/1 AED/ab

SUBJECT : Rehabilitation Santa Maria Power Station.

TO : Eng. C, Fifth Army A.M.G.

1. With reference to Para 2, 1st Ind., this office has studied reports of Eng. IV Corps A.M.G. dated 21 Dec. 1944 and Lt-Col. Cooley, Elec. C, P.B.S., dated 19th Jan. '45 regarding hydro plant at Santa Maria. On 28 Feb. 1945 Captain Duran of this office also visited site. At that time clearing work was well under way thus permitting a closer but still not thorough detailed survey of damages.

2. It is the reserved opinion of Capt. Duran, pending this more detailed survey, that with civilian personnel together with facilities available through this office and possible military assistance in the procurement of materials, one machine may be replaced in service within three months, the other two to follow at six week intervals, at an estimated cost of 3,000,000 lire or 500 lire per kilowatt.

3. For your further information, this office has arranged with Soc. Adriatica, who owns and controls Santa Maria and Le Piane through Soc. Bolognese, for the designation of an accredited representative in Florence for financial and administrative control. In addition, an Adriatica engineer will be placed directly in charge of the project of Santa Maria. It is planned that within a very few days these representatives with Capt. Duran will revisit Santa Maria for the purpose of making closer estimates and formulating a definite program of work to be put into effect as soon as possible. Your office will be kept informed of further developement. 723

By Col Rapp - Pol
Lt. 17/3

Albert A. Ball
Major C.C.
Officer in charge

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

Copy

INTEROFFICE REFERENCE SHEET FIFTH ARMY

OFFICE ENGR HQ FILE NO V/142/4 SUSPENDED DATE

SUBJECT: Rehabilitation of Power Station

Ind.No	From	To	Date	
1	Engr	AMG 5 Army	12 Feb '45	1. Ref your 205/9 of Dec.27 44, to CE 15 Army Group enclosing reports on the SANTA MARIA CASTIGLIONE and SESTAIONE Power Stations. Herewith a copy of Engineer P.B.S. Inspection Notes on SANTA MARIA.

2. A.F. H.Q. have informed this office that military labour cannot be spared at this time for the rehabilitation of this station and further information is requested on the possibility of rehabilitation by civilian labour if materials are made available. In view of the attached report your views are requested on the time required to complete the station using civil labour.

3. The station at SESTAIONE has not yet been inspected as this is reported to be in an area as yet only covered by patrols. If this station is in the condition reported - repairs will probably be carried out under military supervision.

For the Army Engineer.

H.C. ROWLAND JR.,
COLONEL, C.E.,
EXECUTIVE

2	Engr.O AMG 5 Army	O/C Fwd office FW&U S/C.	Feb.13 1945	1. For the information requested in para. 2 of 1st Indorsement.

For the Comdg. General:

D.M. GAITHER
Major, GMP,
Engineer Officer,
AMG Fifth Army.

721

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

RECEIVED
P.W. & D.S/C A.C.
12 MAR 1945 158

INSPECTION TAVARNUZZE SUB-STATION

March 13th 1945.

Transformers.

Insulation complete, resistances are now being assembled and the whole unit to be ready for assembly by Wednesday 14th inst.

I inspected very closely the mounting of the crane and trolley track. Good progress has been made; the position is:

The power take off will be in position within the next 40 hours, the motor necessary for this is still under repair, having a slightly distorted shaft; this is now under repair and every effort is being made to have this unit in position by the 15th.

Filter unit is now in first class order and in position for operation. It is intended to begin filtering into stand by tank located near the transformers house; this will go on during the assembly of group to tank; on completion oil will be pumped in to assembled transformer. Much time will be saved.

Oil.

The barrals transported from Castelnuovo to San Romano are reported filled and ready to be moved to Tavarnuzze.

Arrangements are in hand to provide the necessary transport on Wednesday 14th inst.

Question.

Transformers at Prato; what is the intention; 10,000 KVA 60/30 KV, is this a 77 C.R.E. responsibility or do we carry on with the request made to arrange movement?

A. Crowther, Major.

NOTE:

Phoned Capt. Mason-Tolby.

77 C.R.E. E/O, who would appreciate assistance, in moving transformer from Prato to Tavarnuzze on or about 17th. This is laid on.

A. Crowther, Major

720

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

Special Diff

Tel. 475.306 EJB/lss

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

83

Reference: 153/PWU 15 March, 1945

SUBJECT : Approval San Giacomo Project

TO : Ministry of Public Works
(Att. Ing. Visentini)

1. Confirming conversations at conference held in your office to day attended by Major E.J.Berry C.E. of A.C., Prof. Asta, Ing. Angelini, Ing. Sigli of Terni Co. and Ing. Consiglieni.

2. It is agreed that A.C. will initiate requests to various sources of supply in answer to demands by the Societa' Terni per l'Industria e l'Elettricita' for the first two months requirements on this project.

3. The Terni Co. in the future will present their demand for all supplies through your office two months in advance of date required at project.

4. As this project has the approval of your office and A.C. after submission to the Advisory Committee of Central Italy it is suggested that all possible aid and material be extended with the view of developing 100000 Kw within 12 months.

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

Copies to: Lt.Col. Lapper
Prof. Asta
Major E.J. Berry
Major V.S. Fenton
Major Price

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

Tel.489081
Ext.317.

WMI/ce

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

158/PWU.

15 March 1945.

SUBJECT: Repairs to Electrical Plant Italy.

TO : Director of Civil Affairs,C.A.13
(att: Lt.Col. Cotton)
The War Office,
Hotel Victoria,
Northumberland Avenue,
LONDON, W.C.2.

1. Enclosed two copies of Report for Month of February 1945 on Electrical Plant Rehabilitation in Southern and Central Italy, for information.

2. This information is, I think, self-explanatory and it may be taken that progress of rehabilitation work is limited to the workshop capacity available to us in Italy.

3. Also attached are two copies of a map showing the area covered by the Southern and Central Italy Electricity Advisory Committee.

W.M. LAPPER,
Lieut-Colonel,
Chief,Elect.Div.

Encl.

718

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

DO/158/PWU.

HEADQUARTERS ALLIED COMMISSION
Public Works & Utilities Sub-Comm.
APO 394.

81

15 March 1945.

Dear Ingleson,

I am sending you herewith two copies of the Monthly Report on Electrical Plant Rehabilitation in Italy, for information.

This information is, I think, self-explanatory and it may be taken that progress of rehabilitation work is limited to the workshop capacity available to us in Italy.

Also attached are two copies of a map showing the area covered by the Advisory Committee on Electric Power for Central and Southern Italy. Please attach these to the Advisory Committee's minutes already sent to you.

Yours sincerely

P. INGLESON, Esq.,
C.P.R.B. Public Utilities Committee,
London Staff,
MINISTRY OF PRODUCTION,
Great George Street,
LONDON, S.W.1.

717

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

Vol 158.

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158/PWO

13 March 45

To. C.A. 13. War Office.

fol 87. file 124

716

Tel.843274

WB/wg

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RECEIVED
P.W. & U. S/C A.C.
15 MAR 1945 158

HEADQUARTERS
LAZIO-UMBRIA REGION A.M.G.
(Engineering Division)
APO 394

Rome, 12th March 1945.

SUBJECT : Restoring works of Formia-Gaeta and Garigliano-Maranola Electric installations.

TO : P.W.& U. S/C Electrical Division
(Att.: Major Renton)

FILE N° : R4/EXC/701.12 (to quote in reply)

1. The 9 KV electric power line Fiume Garigliano-Formia Gaeta and its branches and the 60 KV electric power line Fiume Garigliano-Maranola Substation have been cleared from mines.

2. This has been done in order to allow the Società Elettrica per la Campania and the Società Meridionale di Elettricità to have a/m electric lines repaired or rather rebuilt due to the heavy damages of the electric installations.

3. The attached memorandum coming from the Società Elettrica della Campania claims that this task cannot be accomplished for lack of copper wires. Copper scraps already in stock should allow the Corradini Firm, in Naples, specialised in this kind of work, to supply the needed copper wires if 27 tons of metallurgic coke (from blast furnace) and 35,75 tons of pit-coal with long flame could be supplied for the purpose.

4. This office is bringing the matter to your attention for any action that is deemed advisable and in view of its early closing down is suggesting to take direct contact with the Società Elettrica della Campania for any information still needed or any instruction to be given.

For Regional Engineer

Lt Col Capper
[signature] 16/3

E.P. Wade-Brown
E.P. WADE-BROWN Capt. R.A.
Chief E & M Section

715

Enclosures : 3

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

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For Regional Engineer

Lt Col Napper
Reg. 16/3

E.P. NADE-BROWN Capt. R.A.
Chief E & M Section 715

Enclosures : 3

Copy to :
Società Elettrica della Campania
Via Roma 123 - Napoli.

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

Tel.843274 WB/wg

458

194

HEADQUARTERS
LAZIO-UMBRIA REGION A.M.G.
(Engineering Division)
A.P.O. 394

Rome, 12th March 1945.

SUBJECT : Mine clearance of transmission electric line 9 KV Garigliano-Formia Gaeta and 60 KV Fiume Garigliano-Maranola.

TO : Società Elettrica della Campania
Via Roma 123 - Napoli.

FILE N° : R4/ENG/701.12 (to quote in reply)

1. With letter R4/ENG/25.4 dated 23rd February 1945 you have been informed that the 9 KV Electric line from Garigliano River-Formia Gaeta had been cleared from mines.

2. Information has now been received from Lt.Col.F.Caruso, Liaison officer of the Italian Army attached to this HQ, that the 60 KV Electric line running from Fiume Garigliano to Maranola Substation has also been swept.

3. In giving this communication we remind you that along these Electric lines the limits of ground cleared are the ones shown in letter R4/ENG/701.12 dated 27th December 1944 from this office and that your workmen have to work strictly within the limits of the cleared ground space there indicated.

4. Reference your application dealing with mine clearance along high tension lines : Scauri Ausonia-Esperia-S.Olivo; Minturno-Suio; Garigliano-Spitaffio; Fontanaredina-Hydroelectric Station Suio; Maranola Gaeta and derivations from these lines, you are requested to bring the matter to : Ministero della Guerra, Direzione Generale del Genio, Ufficio Bonifiche Campi Minati.

For Regional Engineer

B.P.WADE-BROWN Capt.R.A.
Chief P & T Section.

714

Copy to :
- P.W.A U. S/C
- Ministero Guerra-Direzione Generale Genio
Ufficio Bonifiche Campi Minati.

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

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For Regional Engineer

P.Wade Brown

N.P.WADE-BROWN Capt.R.A.
Chief P & R Section.

714

Copy to :
- P.W.& U. S/C
- Ministero Guerra-Direzione Generale Genio Ufficio Bonifiche Campi Minati.

P.S. Along the 9 KV and 60 KV lines 1807 mines have been removed.

Declassified E.O. 12356 Section 3.3/NND No. 784049

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

SOCIETA ELETTRICA DELLA CAMPANIA

MEMORANDUM FOR CAPTAIN WADE BROWN

CAMPANIA ELECTRIC COY = NAPLES = VIA ROMA 123

RESTORING WORKS OF FORMIA GAETA ELECTRIC PLANTS

Now we are working on the reconstruction of the electric plants in Formia and Gaeta area.

We are proceeding from Garigliano river towards Formia and Gaeta but we fear to be obliged to stop the work for want of cupper wires.

The Società Metallurgica Corradini (Naples - Corso Vittorio Emanuele 167) has declared that it is not possible to make the cupper wires from our scraps, because she has not metallurgic coke (from blast furnace) and pit-coal with long flame.

The Corradini firm to supply to Campania Coy 27 tons of cupper wires wants: 27 tons of metallurgic coke (from blast furnace) and 33,75 tons of pit-coal with long flame.

The metallurgic coke, as it seems, is at disposal in "Ilva" factory in Bagnoli but it is necessary to get the agreement of H.Q. P.B.S. Supply office in Naples.

For the pit-coal we don't know where it is possible to find.

Therefore we beg you to take the best interest in this matter and to get the allowance to Corradini firm of the coke and the coal as above for the important job.

Naples, 22 nd February 1945

LM/ra

713

Z O N A F O R M I A

CALCOLO RAME

- Linea alta tensione dorsale 60/10 =

25 Km x 3 x 250 — Ton. 19

Derivazione A.T.

Minturno 50/10 3 Km.
Maranola cabina 60/10 1 Km.
" paese 40/10 2,5 Km.
Orsi + Pellegrini 40/10 2 Km.
Itri 50/10 5 Km.

50/10 8 Km. " 2,5
40/10 4,5 Km. " 1,6
60/10 1 Km. " 0,75

Riepilogo A.T.

60/10 Tonn. 20
50/10 " 2,5
40/10 " 2
24,5 ./. 25 Tonn.

- Linee B.T.

Minturno centro

50/10 5 quintali
40/10 2 "

Simonelli

può rimediare

Scauri

50/10 11 quintali
40/10 2 "

Formia Litus

50/10 11 quintali
40/10 2 "

712

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

Derivazioni A.T.

Minturno 50/10 3 Km.
Maranola cabina 60/10 1 Km.
" paese 40/10 2,5 Km.
Orsi + Pellegrini 40/10 2 Km.
Itri 50/10 5 Km.

50/10	8 Km.	"	2,5	20
40/10	4,5 Km.	"	1,6	12
60/10	1 Km.	"	0,75	8

Riepilogo A.T.

60/10	Tonn.	20	28
50/10	"	2,5	20
40/10	"	2	12
		24,5 ./. 25 Tonn.	

- Linee B.T.

Minturno centro

50/10 5 quintali
40/10 2 "

Simonelli

può rimediare

Scauri

50/10 11 quintali
40/10 2 "

Formia Litus

50/10 11 quintali
40/10 2 "

712

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Formia Centro

50/10 5 quintali

Vindicio

50/10 16 quintali
40/10 4 "

Mlena

50/10 5 "

Gaeta esterno ed interno

60/10 4 quintali
50/10 6 "

Itri

50/10 5 "
40/10 3 "

Maranola e Trivio

40/10 3 quintali

R I E P I L O G O

		40/10	50/10	60/10	Totale
- Alta Tensione	Tonn.	2	3	20	25
- Bassa "	"	2	7	1	10
		4	10	21	35
			5	3	8

- Filo ricotto per legatura: 6 quintali -

711 e2

Napoli 19.1.1945

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

Elena

50/10 5 "

Gaeta esterno ed interno

60/10 4 quintali
50/10 6 "

Itri

50/10 5 "
40/10 3 "

Maranola e Trivio

40/10 3 quintali

R I E P I L O G O

		40/10	50/10	60/10	Totale
- Alta Tensione	Tonn.	2	3	20	25
- Bassa	"	2	7	1	10
		4	10	21	35
			5	3	8

- Filo ricotto per legature: 6 quintali -

711 e2

Napoli 19.1.1945

IM/sm

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

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RECEIVED
P.W. & U. S/C A.C.
14 MAR 1945 158

ENGINEERIN DIVISION
HEADQUARTERS
AMG/AC
ABRUZZI MARCHE REGION
C.M.F.

HEADQUARTERS
14 MAR 1945

TO : HQ, AC, P.W. and U. Sub-Commission
(Atten.Maj. Barry).
SUBJECT : Tolentino. Exciter for Addolarata P.S.
REF : R5/516/2/1
DATE : 13 March 45.

The Addolarata P.S. at Tolentino (Macerata) houses one 435 KVA and two 250 KVA sets.

Repairs to one 250 KVA set are almost finished but completion of the second set are held up through lack of a 120 V. 50 c. exciter.

Endeavours to find a suitable exciter within the Re=gion have failed to produce one and your assistance will be appreciated.

The r.p.m. of the alternator are 375 but the exciter can be belt or gear driven.

Extensive damage has been done to both turbine and alternator of the 435 KVA set and repairs will take some time.

For the Regional Engineer.

15.3.45

J.E. FODEN
Major
Regional Electrical Officer.

710

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

General Office 77

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

Reference: 158/PWU 12 March 1945

SUBJECT : Inventory of High Tension Transformers, Central Italy.

TO : Ing. A. Asta

In order that the future position of high tension transformers in Central Italy may be definitely known, and so that plans may be made accordingly, it is suggested that each electric company submit at the next meeting of the Advisory Committee on Electric Power Central Italy, an inventory of high tension power transformers for voltage of 30 KV and over, and giving the following information:-

Capacity in KVA

Primary Voltage

Secondary Voltage

Present condition use and location

Future intended use

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

104 uffs

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

T.1. 478.906

EJB/lam

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

Reference: 158/PWU

10 March 1945

SUBJECT: Rehabilitation of Leghorn Thermal Station.

TO : Commander Hoggan R.N.
Navy House Naples -
Forward to Capuano Station

1. A conference was held during the past week with the Naval Officer in Charge Port of Leghorn and subsequently with Lt. T.L.Sine R.N. and Captain Albert Duran of the Allied Commission Public Works and Utilities Sub-Commission, Electrical Division.

2. The subject discussed was the supervision of mechanical and electrical rehabilitation of this station as a Royal Navy project.

3. It was agreed that supervision, personnel and facilities at the command of the Royal Navy would be used to perform the following work.

4. Complete coal handling system, necessary boiler work, all piping, setting of the turbine and alternator and all connections with its necessary auxiliaries. The necessary electrical work for the operation of one of the formerly installed turbines.

5. All building repairs will be undertaken by the operating company Selt-Valdarno.

Does this arrangement must with your approval. In the event you do approve will you issue the necessary instructions.

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

708

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

Tel. 478,905

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

HMD/ms 75

158/PWU

10 March 1945

Subject : Transmission Line - Aventino Power Station.

To : UNIONE ESERCIZI ELETTRICI (Att. Eng. Torelli)
via Torino, 117

ROME

In is hoped that the Power Station of Aventino will commence operation at the end of April, with one unit of 6,000 KVA.

At present no lines exist for the output of this station.

It is requested that you repair immediately the section of 30 KV line Aventino - Lunn, thus providing a 30 KV line through to Lanciano.

As the section of this line is small, the losses will be large. It is therefore suggested you make arrangements with the Sangritana Railway Coy. to repair their 30 KV line Aventino - Sessa-cata using materials from either the Aventino - Fello or Fallo - Sesroeta lines belonging to the same Company.

The repaired line could then be paralled with your line.

M.V. LAPPIN
Lt-Colonel,
Chief Electrical Div.

707

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

Società Adriatica di Elettricità

ANONIMA PER AZIONI - SEDE IN VENEZIA

Capitale sociale L. 1.280.000.000

RECEIVED
P.W. & O.
MAR 1945
458

Ufficio di Roma

Roma, li 8 marzo 1945 Anno

Sig. MAGG. BARRY

Capo Reparto Produzione

Dir. Servizi Elettrici

R O M A

In relazione alla richiesta da Lei oggi rivolta al nostro Dott. Berghinz, con la presente Le trasmettiamo copia della memoria da noi consegnata il giorno 5 febbraio 1945 all'Ufficio Lavori Pubblici A.M.G. di Riccione, nonchè copia dell'istanza rivolta in data 19 gennaio 1945 all'A.M.G. dalla nostra Consociata Soc. Elettrica Romagnola.

Ringraziandola vivamente per il Suo fattivo interessamento, distintamente La salutiamo

SOCIETA' ADRIATICA DI ELETTRICITA'
— UFFICIO DI ROMA —

Nº 2 allegati

C.P.E. Roma 1961 Tipografia Via Quattro Fontane n. 143 Tel. 41-599
Stab. Romano Litografico Sede Roma

Translation attached
706

ON. UFFICIO DEI LAVORI PUBBLICI

dell' A.M.G.

RICCIONE

I sottoscritti, dirigenti della Società Adriatica di Elettricità e della Società Idroelettrica dell'Alto Savio, onorati della particolare benevolenza di codesto Ufficio, che ebbe ad estendere il loro permesso di circolazione alle Provincie di Forlì e Ravenna, aderiscono ben volentieri alla richiesta dallo stesso avanzata di avere al loro ritorno in Rimini una breve relazione sulla situazione da loro constatata e sui mezzi più opportuni per fronteggiare e gradualmente risolverla.

Come è noto, la distribuzione dell'energia elettrica in Romagna e nelle provincie di Ravenna, Forlì e parte di Pesaro, veniva eseguita dalla Società Romagnola di Elettricità, facente parte del Gruppo Società Adriatica di Elettricità (avente sede legale e Direzione in Ravenna) e della Soc. Idroelettrica dell'Alto Savio (con sede in Roma e Direzione in Rimini).

Tutta la regione anzidetta, che richiedeva circa 75 milioni di KWora annui, era servita in minore parte dalla centrale di Quarto della Soc. Idroelettrica dell'Alto Savio (circa 14/15 milioni di KWora) e da qualche centralina locale di poche centinaia di KW e, per il restante (circa 60 milioni di KWora), dalle centrali veneto-alpine della Soc. Adriatica di Elettricità principalmente, e degli impianti a Sud di Rimini dell'Unione Esercizi Elettrici.

705

Ora, essendo andata distrutta la centrale di Quarto, troncate le grandi linee di trasporto del Veneto (come emerge

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

anche dall'allegata istanza della Soc# Elettrica Romagnola al Governo Militare Alleato) con le relative stazioni di trasforma= zione, e pure distrutte le piccole centrali locali, all'alimen= tazione elettrica della regione tutta non resta altra risorsa che il collegamento con i predetti impianti della Unes a mezzo della miracolosamente superstite piccola stazione di trasformazio ne di Cattolica.

Non essendo però detti impianti assolutamente in gra= do di fornire l'energia bastevole per un servizio sia pur ridotto non resta altra soluzione, anche a fronte bellico ulteriormente spostato a Nord che quella di collegare le reti locali con gli impianti di Lardarello e di Terni, a mezzo delle due grandi linee a 120 KV Lardarello=Riccione e Terni=Riccione (che urge riparare e riattivare) problema codesto che esula dalla competenza e dalla possibilità della Società Romagnola ed Alto Savio. Per quanto con= cerne dette Società si presentano due ordini di problemi, di per se gravissimi, che però le stesse potranno superare solo che pos= sano contare sul fattivo appoggio di cod. On. Ufficio.

Il primo, ed il più grave, é quello di carattere eco= nomico: messe di fronte all'improvvisa cessazione di ogni reddito, con gli impianti distrutti (così come é meglio illustrata nella ricordata istanza alla A.M.G.) le Società, senza un adeguato in= tervento finanziario a condizioni di favore, sarebbero costrette a sospendere i lavori di riattivazione di cui sarà detto in appres= so, ed a licenziare la gran massa del proprio personale. = Il se= condo, quello inerente alla riparazione e sistemazione delle ca= bine di trasformazione e delle linee di trasporto e distribuzione locali (opera già iniziata malgrado le difficoltà) gravi che vi si

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

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

frappongono) potrà essere risolto dalle Società stesse, col perso= nale tecnico specializzato di cui sono dotate, solo che cod. On. Ufficio voglia intervenire sui punti:

a) Raggiungimento di un equilibrio economico tra le maggiori spese di esercizio e gli introiti attraverso un equo aumento del= le tariffe, atto ad eliminare le state fallimentare creatosi;

b) Concessione di adeguati mezzi di trasporto da parte delle Autorità Alleate, la cui necessità sarà giustificata di volta in volta dalle Direzioni delle Società;

c) Assegnazione di materiali complementari a quelli di cui le Società stesse possono disporre;

Siamo certi che cod. On. Ufficio, con la comprensione già dimostrata nel favorire la nostra opera, porterà tutta la sua attenzione sui problemi da noi in sintesi precedentemente esposti, e verrà intervenire, nel senso da noi richiesto, nell'interesse pubblico e generale di queste disgraziate regioni che tanto hanno sofferto e soffrono per gli errori della guerra.

Con questa certezza, rimaniamo a disposizione di Cod. On. Ufficio per fornire ogni necessario dettaglio dimostra= tivo e probativo nonché ogni chiarimento e delucidazione sui pun= ti tutti da noi esposti, rendendo noto che per ogni comunicazione al riguardo, comd. Ufficio potrà rivolgersi al Direttore della Soc. Alto Savio ing. Alfredo Ricci avente ufficio in Rimini, via Angherà n° 25.

Con ossequio.

703

p. Soc. Idr. Alto Savio
F.to Ing. Augusto Biagini

p. Soc. Adriatica di Elettricità
F.to Comm. Carlo Maffei

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

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Con ossequio.

703

p. Soc. Idr. Alto Savio
F.to Ing. Augusto Biagini

p. Soc. Adriatica di Elettricità
F.to Comm. Carlo Maffei
" Dott. E. Berghinz

N° 1 allegato

Rimini 5 febbraio 1945

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

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

HQ AMG. EIGHTH ARMY REAR
Public Works & Utilities Division

RECEIVED
P.W. & U. S/C A.C
MAR 1945 158

Ref : RIX/PU/02.1 6 March 1945

Subject : Repair of hydroelectrical plant "QUARTO".

To : Chief, Electrical Division
Public Works & Utilities Sub-Commission
Allied Commission

1. It has been recommended that certain repairs to the hydro-electric plant "QUARTO" at SARZINA (R 4981) are feasible. These repairs will entail, among others, the rebuilding of a 1280 KW alternator and the replacement of one 1850 H.P. Francis-type turbine.

2. This plant is owned by Societa' Idroelettrica dell'Alto Savio. The Company has operations offices in RIMINI and a commercial office at ROME, Via Quattro Fontane 143. The president of S.I.D.A.S. is Ing. BIAGINI AUGUSTO.
It is suggested that Ing. BIAGINI contact your office to explain the project to you.

WILLIAM M. SPANN
Lt.Col. AUS
Senior Engineer Officer (2)

HEADQUARTERS
QMRRENAS

Copy to Major Bell Advised Hotzke 9/3/45
Shown Rad & Engineer Evalt Eng. Biagini
on March 15, 1945.

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el. 470.205

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MEMORANDUM

PAR/MA 72

1 March 1943

SUBJECT : Election of Directors, Lardarel e Co.

To : Director, Public Works and Utilities Sub-Commission.

1. A meeting was called by the Ministry of Transport for the purpose of electing new Directors of the Lardarelli's management. The meeting was held on the 28 Feb. 1943 in the Conference Room of the A.M.I.G. on Via dagli Scialoia n.21, Rome.

2. Before the Conference got under way, Prince Ginori and Conte Ginori were present. An informal discussion of which I do not know its nature, took place in a room ajoining the conference room. Prince and Conte Ginori took part in the discussion. After this brief session Prince and Conte Ginori left the room and did not remain to attend the conference.

3. The conference began a 1135 hrs. Avv. Calamini ex-Consigliere acted as chairman of the meeting. The following members were present:

S.E. DI RADICATO	Barone ALIBRANDI
Ing. LALLI	Dott. [illegible]
Ing. LARDI	Dott. [illegible]
Ing. IACOBINI	Ing. VIRGILI
Dott. [illegible]	Notaio [illegible]
Avv. CALAMINI	Lt. [illegible]

4. It was stated by Avv. Calamini that the Italian State Railway has the greatest interest and therefore had the right to propose new Directors in the management.

5. At this point I would like to point out that there was no open discussion by any of the members present. The appointments of the various directors in the management were presented by Avv. Calamini ex-Consigliere, acting chairman and were recorded on the minutes made at the conference. The list of the new Directors

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presented by Avv. Colombi is as follows:

S.E. Avv.	ZERBINI Francesco Minister of Communication
S.E. Gr.Uff. Ing.	DI RAIMONDO Giovanni General Manager F.S.
S.E. Prof. Ing.	COLOMBETTI Gustavo
Gr.Uff. Ing.	ARENDI Adolfo
Comm. Ing.	VIMINI Enea
Cav.Uff. Ing.	BIFALDO Vincenzo
Dott. Ing.	DELLA CASA Marino
Comm. Avv.	CARAVITA Beniamino
Gr.Uff. Prof.	CORBELLA Luigi.
Comm. Ing.	MARCHETTI Cesare
Gr.Uff. Avv.	ZICCARDI Nicola.

6. The above list was presented from a type written list and no comments of the names presented was made by any of the members present.

7. Attached is the disposition drawn up at the Conference. The afore mentioned minutes were dicted by Avv. Colonial Secretary, acting Chairman of the Conference. No comment were made by any of the members present in regards to any of the minutes of the Conference.

[signature]
[illegible] S. CORSI
1st Lt. Cml. Inf.

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Referenced n. 19590

MINUTES OF THE CONFERENCE

Umberto di Savoia
Principe di Piemonte
Lieut)General of the Realm.

Year of onethousandninehundredfortyfive twentyeight day of Feb.
(28 Feb. 1945)
Via degli Scialoia, 21 - Rome.
Upon request of the "Lardarello", Societa' Anonima per lo Sfruttamento delle Forze Indogene, whose head office is in Rome on above mentioned address. Capital stock £ 150,000,000 - totally subscribed.

I, the undersigned Dott. Michele Tucceri Notary Public of Terracina, Member of the Notary District of Rome, Littoria and Velletri, arrived at Via degli Scialoia n.21 at 11 AM., to assist in the writing of the minutes of the above mentioned societa'. Convited for the second Conference on this day, hour and place for the purpose to discuss and elberate the order of the day published in the official Gazzette of the Realm dated 13 Jan. 1945 n.4. Attached to minutes exhibit "A".

Order of Day

I - Communications of the Presidency
II - Renewal of all Board of Directors falls due according to art. 20 (last part) of local articles of the association.
III - Miscellaneous and eventual resolutions of extraordinary meeting : Resolutions concerning the Legal office of the Company art. 2 (1st Par.) of the articles of the association.

As soon as I arrived here, I have found Avv. Calamini Antonio son of the late Giuseppe, born and residing in Rome on via Largo Cancie n. 132 ex-Consigliere who is entrusted by the Board of Directors with the holding of the present meeting. Avv. Calamini whose personal identity, I Notary, am sure of renounces with my agreement to have the assistance of witnesses and invites a notary to perform the functions as a secretary)

The President having ascertained that the following gentlemen were present:

I Dott. Paride Formentini - Administrator
II Dott. Ing. Oreste Iacobini
III Ing. Enea Virgili
IV Cav. Eugenio Marucci, Presidente del Collegio Sindacale
VI Rag. Averardo Migliorini, Sindaco Supplente.
VI S.E. Giovanni Di Raimondo General Manager and legal representative of State Railroads Administration, owner of 250,000 shares of B Category, and 802,000 shares of A Category, recorded same on the book of the share-holders.

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Having Ascertained

The Conference being held

I hereby declare

said Conference validly constituted to deliberate on the above mentioned Order of the Day.

After a memorial tribute for the late Ing. Alfredo Mazzelli, ex Managing and Vice General Manager of the Company, held by the President, the same stated that following change of the head office of the Company to Rome under the Administration of the Italian Government, the Consiglieri Formentini, Galamini, Franchini, Mazzelli, Virgili have put their office appointment at the disposal of the share-holders; the Administrators Antonio Stefano Benni, Dr. Luigi Volani and Ing. Giacomo Pini but previously resigned from their office. By effect of Article 20 of the Statute besides, last paragraph, it is understood that the Board of Administration has expired from their office appointment being the number of Administrators in office reduced to less than seven. It is therefore necessary to proceed for the renewal of the Board of Administration as stated in Article n.2 of order of the Day.

The following have being appointed by unanimous election

S.E. Avv.	CERAMICOLA Francesco	Ministry of Transportation
S.E. Gr.Uff. Ing.	DI RIENZO Edmund	General Manager F.S.
S.E. Prof. Ing.	GILORMINI Gustavo	
Gr.Uff. Ing.	MAZZOLI Adolfo	
Comm. Ing.	VIRGILI Aldo	
Cav.Uff. Ing.	MICHELOZZI Vincenzo	
Dott. Ing.	DELLA TORRE Marino	
Comm. Avv.	CARAVITA Bernardino	
Gr. Uff. Prof.	CERASOLA Luigi	
Comm. Dott.	MACCHIAVELLI Cesare	
Gr.Uff. Avv.	DI CARLO Nicola.	

The above elected state to accept the appointment.

Reference to paragraph 3 of the order of the day. The President points out that on the 19 October 1943 upon request of some Administrators, a meeting of the Board of Administration was held in Rome, minutes of the meeting have not yet been written in the appropriate book due to certain disagreements. However the President proposes to the new Administrators at the end of the Conference, a text report to be written according to the law.

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as for the extraordinary part of the Order of the Day, the President refers that follows:

"The Board of Directors decided on April 12, 1944 to call the ordinary meeting of Shareholders for approving the balance sheet for the financial year 1943. The first meeting was called the first time for April 30, 1944 - and nobody attended it - the second one can called for May 30, 1944.

The Company's Vice President, Prince Giovanni Giusti Conti, having heard of the decree promulgated by the fictitious Napolitan Government on Feb. 10, No. 113, concerning the compulsory transfer of the headoffices of Mediterranean Companies, took the initiative for calling the Ordinary and Extraordinary meeting in Florence for May 10, 1944, putting in the minutes the transfer of the headoffice in Florence.

Mr. Mibelli, representing the State Railways, regularly participated in the meeting. It was decided to carry out the formalities. The minutes of the meeting, received by the Notary Public Mr. Pecorini, was lengthened by the Court of Florence by Decree of July 1st 1944, that the chancery of the Lucca Court refused to accept the deposit of the transcription dead, stating int only the Court of Lucca was entitled to homologate the minutes.

The Board of Directors, having been informed of that above, deemed it necessary to call the Extraordinary meeting, in order that, together with the legitimate representatives of the Railways administrations, it, decides while the transaction is to be located.

Copies of the minutes of the aforesaid meeting held on May 30, 1944, will be handed to the Lucca Court. The Meeting unanimously decided that the text of Art. 2 of the Company's Incorporated Act, should be amended as follows: "The Company's headoffice is located in Lucca. The Board of Directors is empowered to establish, even elsewhere, secondary and subsidiary offices, branch-offices and agencies, and to suppress them."

During all the matters been dealt with, the Meeting is closed at twelve hours forty five minutes (12.45 hrs).

Upon request I, Notary Public, signed the present Minutes, and read them to the party appearing who, upon my interrogations, has confirmed and undersigned it.

Written all by myself, it consists of two sheets of registered Paper.

Antonio CALAMAI
Michele PUCCINI, Notary Public.

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REPERTORIO N. 19599 RACCOLTA 3150

VERBALE D'ASSEMBLEA.

Umberto di Savoia,
Principe di Piemonte
Luogotenente Generale del Regno.

L'anno millenovecentoquarantacinque il giorno ventotto del mese di febbraio

28 febbraio 1945

in Roma via degli Scialoia 21

a richiesta

della "FASSIOLINO" Società' Anonima per lo sfruttamento delle forze Endogene con Sede in Roma, ove sopra - capitale £. 150,000,000 interamente versato

Io sottoscritto

dott.Michele Tuccari notaio in Terracina iscritto al Ruolo dei distretti Notarili Riuniti di Roma, Velletri e Velletri alle ore undici (ore 11) mi sono recato in via degli Scialoia N.21 allo scopo di assistere, elevandone verbale, all'assemblea Generale Straordinaria e Ordinaria dei Soci della Società' suddetta, riunita in seconda convocazione in questo giorno ora e luogo, allo scopo di discutere e deliberare l'ordine del giorno tempestivamente pubblicato nella Gazzetta Ufficiale del Regno, foglio inserzioni, del 13 gennaio 1945 n.4, che s'allega al presente verbale sotto la lettera A, previa lettura e precisazione:

Ordine del Giorno

Assemblea Ordinaria:
I - Comunicazioni della Presidenza
II - Rinnovazione di tutto il il Consiglio di Amministrazione scaduto in base all'articolo 20 (ultimo comma) dello statuto locale.
XII - Varie ed eventuali Assemblea straordinaria: Deliberazioni relative alla sede legale della società': articolo 2 (primo comma) dello statuto sociale.

Quivi giunto ho trovato il Sig. Avv. Antonio Galardi fu Giuseppe nato a Roma e quivi domiciliato Largo Canale n. 132 Consigliere il quale viene dal Consiglio di Amministrazione delegato a presiedere la presente assemblea. Comparente della cui identita' personale io Notaio sono certo, il quale con il mio consenso rinunzia alla assistenza dei testimoni e (invita un notaio a fungere da segretario.

Il Presidente quindi constata la presenza dei Signori:

I Dott. Paride Formentini - Amministratore
II Dott. Dug. Oreste Lacchini
XII Ing. Enea Virgili
IV Cav. Eugenio Mercuri Presidente del Collegio Sindacale 696
V Rag. Averardo Migliorini, Sindaco Supplente.
VI S.E. Giovanni Di Raimondo Direttore Generale e legale, rappresentante della Amministrazione delle Ferrovie dello Stato, quest'ultimo titolare di numero 250,000 azioni di Categoria B e numero 802,000 azioni di Categoria A, iscritto come tale nel libro dei soci.

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Constata

La tempestiva convocazione presente

Dichiara

La presente assemblea validamente costituita per deliberare sull'ordine

del giorno sopra riportato.

Dopo una commossa commemorazione dell'Ing. Alfredo Micarelli, testè defunto, già Consigliere e Vice Direttore Generale della Società, fatta dal Presidente, il medesimo comunica che in seguito al passaggio di Roma sotto Amministrazione del Governo Italiano, I Consiglieri Fornentini, Calamini, Iacobini, Micarelli, Virgili hanno posto a disposizione degli azionisti le loro cariche; precedentemente avevano cessato per dimissioni, gli amministratori Antonio Stefano Benni, Ing. Luigi Velani e Ing. Giacomo Pisa. Per effetto dell'art. 20 dello Statuto Sociale, ultimo comma, l'intero Consiglio d'Intende scaduto di carica essendo il numero degli amministratori in carica ridotto a meno di sette ed occorre pertanto procedere alla rinnovazione dall'intero Consiglio di Amministrazione come al N.2 dell'Ordine del giorno. Procedutosi alla nomina del nuovo consiglio risultano eletti per acclamazione unanime i Sigg.:

S.E. Avv.	CERABONA	Francesco	Ministro dei Trasporti
S.E. Gr.Uff. Ing.	DI RADICUCO	Giovanni	Direttore Generale F.S.
S.E. Prof. Ing.	COLONNETTI	Gustavo	
Gr.Uff. Ing.	AMIDEI	Adolfo	
Comm. Ing.	VIRGILI	Enea	
Cav.Uff. Ing.	RIPULCO	Vincenzo	
Dott. Ing.	DALLA TORRE	Marino	
Comm. Avv.	CARAVITA	Beniamino	
Gr.Uff. Prof.	CERUELLA	Luigi	
Comm. Ing.	SACERDOTI	Cesare	
Gr.Uff. Avv.	GIOCOLI	Nicola.	

I presenti come sopra eletti dichiarano di accettare la carica conferita loro.

Passando al 3 paragrafo dell'Ordine del giorno il Presidente riferisce che il 19 Ottobre 1944 e' stata tenuta in Roma su richiesta di alcuni amministratori, una riunione del Consiglio di Amministrazione, della quale non e' stato ancora riprodotto nel libro relativo il verbale, per alcuni dissensi nel contenuto del medesimo e fa riserva di proporre agli amministratori presenti al termine della presente seduta, la relazione di un testo da trascrivere a norma di legge.

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Passando quindi alla parte straordinaria dell'Ordine del giorno il Presidente riferisce quanto appresso:

"Il Consiglio di Amministrazione il 12 Aprile 1944 delibero' la Convocazione dell'Assemblea Ordinaria dei Soci per l'approvazione del bilancio dell'esercizio 1943. Tale convocazione fu fatta per il 30 Aprile 1944 nella quale data l'Assemblea ando' deserta ed in seconda convocazione per il 30 maggio seguente.

Il Vice Presidente della Societa' Principe Giovanni Ginori Conti venuto in seguito a conoscenza del decreto dello pseudo Governo Repubblicano del 10 Febbraio 1944 n.119 relativo al trasferimento obbligatorio delle sedi delle Societa' controllate dallo Stato, per evitare provvedimenti d'Autorita', prese l'iniziativa di convocare l'Assemblea in sede Ordinaria e Straordinaria, per il 13 maggio 1944 in Firenze, ponendo all'ordine del giorno il trasferimento della sede di detta citta'.

L'assemblea fu tenuta con l'intervento, per l'Amministrazione delle Ferrovie, azionista di maggioranza dell'Ing. Nobili e fu deliberato detto trasferimento. Il relativo verbale, ricevuto dal Notaio Franchi di Firenze, fu omologato dal Tribunale di Firenze con decreto 1 Luglio 1944, ma la cancelleria del Tribunale di Roma ha rifiutato di accettare il deposito della relativa nota di trascrizione, rilevando che la competenza esclusiva dell'omologazione spettava al Tribunale di Roma.

Il Consiglio di Amministrazione informato di quanto sopra ha ritenuto doverasi convocare l'Assemblea in sede straordinaria perche' con l'intervento dei legittimi rappresentanti dell'Amministrazione Ferroviaria, deliberi quale debba essere la sede sociale. Al Tribunale di Roma sara' presentato insieme con il presente verbale, copia del verbale della ricordata assemblea del 30 maggio 1944. L'Assemblea all'unanimita' delibera che il testo dell'articolo n.2 dello Statuto Sociale, primo comma, resti invariato nella seguente dizione: " La Societa' ha la sua sede legale in Roma. Il Consiglio di Amministrazione ha facolta' di istituire, anche altrove, direzioni tecniche ed amministrative succursali, agenzie e rappresentanze o di sopprimerle."

Nulla piu essendovi da deliberare, l'Assemblea viene tolta essendo le ore dodici e minuti 45 (ore 12,45).

Al richiesto io notaio ho firmato il presente verbale del quale ho dato lettura al Comparente che da me interpellato l'ha in tutto confermato e come notaio lo sottoscrive.

Scritto, tutto da me occupa due fogli bollati sono linee ventuno.

Firmato Antonio Calamini
Michele Tucciari, Notaio.

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Florence, 6 Via Cerretani
28th February 1945
Telephone n° 1153

MEMO TO COL. LAPPER.

1. Enclosed is report of Toscana Region Labour Officer and attached report on misuse of transport at Lardarello.

2. The nature of these reports are somewhat confidential, hence no copies are being retained in this office.

Robert A. Bell
Major S.C.
USA

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

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

19 February 1945

Lab/300/24

Labor Situation at Larderello.

Labor Sub/c.

1. At the direction of Lt. Col. Babcock, Deputy Director Labor Sub/c., investigation was made of the labor situation at Larderello. Lt. Col. Cooley, FBS Engineering Officer, furnished the background information which was, in essence, that conflicts in the management of the plant were reflected in labor unrest. The firm produces electric power and chemicals from volcanic activity in the extreme south of Pisa province. Allied Forces are principally interested in the production of electricity and Maj. Bell of the Advance Section, Electrical Division, FWSU Sub/c, is in charge and responsible directly to HQ AC.

2. On the 14th and 15th of February the writer, accompanied by the Italian Labor Director of Pisa Province, visited the plant. Production of power is 4% of 1943 production, due to destruction of machinery by Allied bombings and German demolitions. Steam is obtained by drilling as deep as 3000 feet and is harnessed directly through steam turbines and indirectly to convert pure water to steam. Steam temperatures run to 600° F. Condensation produced chemicals, principally boric acid at present.

3. The director, Engr. Virgili, stated that the workers had organized a union, had received a pay raise in January, and were content except for the usual needs of more food, clothing, shoes and bicycle tires. He complained that they intruded into matters not of their concern.

4. A meeting with the Internal Commission of the union disclosed that present pay is satisfactory. The only difficulties were criticisms of management's methods of operation, including the expressed fear that stockholders would not be satisfied with earnings. The relations of management and labor under a democratic government were explained to the Commission and they were advised to confine future activities to labor matters. The advice was well received and apparently they had actually been in doubt as to the proper functions of a union. The Pisa Labor Director explained the functions of his office and discussed some additional points that were

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Labor Situation at Larderello (cont'd).

raised and the meeting ended with the Commission satisfied and in agreement. No labor trouble is expected and the union agreed to take up any future problems with the Pisa Labor Office.

5. The Commission presented a complaint alleging misuse of company motor transport. The complaint is attached to Maj. Bell's copy of this report, for his information.

Ralph R. Small

RALPH R. SMALL
Major, C.A.C.
Regional Labor Officer.

cc:
Lt. Col. Cooley, PBS Eng. O.
Maj. Bell, Adv. Sec. Electric Div.,
PWB Sub/c.

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Tel. 478906

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

158/PWU 26 February 1945

SUBJECT: Larderello Management Situation as of Today

TO : The Director, Public Works & Utilities S/C

1. It is understood that Major Vallero will be assigned to represent the interests of the Toscana Regional Commissioner at the Larderello Plant. It is further understood that these interests include finance, labor and public safety and that Major Vallero will receive instructions from Major Bell on the technical aspects of electric rehabilitation.

2. Major Bell reported yesterday that Prince Ginori and Engineer Vergilli had agreed to discuss the Larderello management situation together. Ginori and Vergilli represent opposite factions at Larderello and this is the first time that they will have talked to each other in twenty months. Major Bell also reported that there will be a meeting of the Larderello stock holders in Rome on the 28th of February at which time a new president and new general manager will be elected.

3. It is recommended that Colonel Kirkwood be notified of the foregoing, in the event that he has not been told by Major Bell. It is further recommended that you suggest to Colonel Kirkwood the fact that the two opposing Larderello factions are in a conciliatory mood, and that it might be well if his office take no aggressive action, pending the results of the conference and stockholders meeting.

E. J. BARRY
Major, Corps of Engineers
Chief, Generation Dept.

VINAL S. RENTON
Major, Infantry
Chief, Operations & Transmission Dept.

Translation attached.

Larderello 6 Febbraio 1945

A S.E. il MINISTRO dei Trasporti

ROMA

e p.c.
Al Direttore Generale delle FF.SS. ROMA
Al Maggiore Robert A. Bell LARDERELLO

I sottoscritti componenti la Commissione Interna di Fabbrica della " Larderello " S.A. espongono all'E.V. quanto appresso:
Il giorno 27 dello scorso Gennaio, alle ore 3 del pomeriggio partiva da Larderello un autocarro noleggiato da questa per il trasporto di prodotti borici destinati all'Agenzia di Roma della " Larderello " stessa.
Giunto il camion all'altezza di Massa Marittima fu fermato ad un posto di blocco e dalla verifica del carico venne alla luce che questo consisteva parte in acido borico e parte in ben trenta colli per un quantitative di 12 quintali di stoffa che sulla polizza di carico erano registrati come " colli vari ". Immediatamente l'Arma dei Carabinieri sequestrava la stoffa ed apriva un'inchiesta.
Da parte della Commissione sottoscritta è stata diretta al Comitato di Liberazione Nazionale di Massa Marittima la seguente lettera:

""""

Larderello li, 30/1/45

Al Comitato di Liberazione Nazionale di

MASSA MARITTIMA

e p.c. a tutte le maestranze della "LARDERELLO" S.A.

""In riferimento a quanto accaduto Domenica u.s. circa il fermo a Massa Marittima di un camion trasportante a Roma prodotti borici e colli di merce varia non inerenti gli interessi della "Larderello" S.A. preghiamo codesto Comitato a voler aiutare con tutte le proprie forze le competenti Autorità di P.S. affinchè l'inchiesta abbia il suo svolgimento regolare, completa luce sia fatta ed i colpevoli severamente puniti.-

Questo è il desiderio di tutte le maestranze della "LARDERELLO" S.A..-
Questa Commissione Interna rimarrà a completa disposizione delle Autorità per tutti quei chiarimenti che si rendessero necessari durante l'inchiesta.- ""

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LA COMMISSIONE INTERNA DI FABBRICA

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I sottoscritti componenti la Commissione Interna di Fabbrica della " Larderello " S.A. espongono all'S.V. quanto appresso:
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Da parte della Commissione sottoscritta è stata diretta al Comitato di Liberazione Nazionale di Massa Marittima la seguente lettera:

"""

Larderello li, 30/1/45

Al Comitato di Liberazione Nazionale di

MASSA MARITTIMA

e p.c. a tutte le maestranze della "LARDERELLO" S.A.

""In riferimento a quanto accaduto Domenica u.s. circa il fermo a Massa Marittima di un camion trasportante a Roma prodotti borici e colli di merce varia non inerenti gli interessi della "Larderello" S.A. preghiamo codesto Comitato a voler aiutare con tutte le proprie forze le competenti Autorità di P.S. affinchè l'inchiesta abbia il suo svolgimento regolare, completa luce sia fatta ed i colpevoli severamente puniti.-

Questo è il desiderio di tutte le maestranze della "LARDERELLO" S.A..- Questa Commissione Interna rimarrà a completa disposizione delle Autorità per tutti quei chiarimenti che si rendessero necessari durante l'inchiesta.- ""

LA COMMISSIONE INTERNA DI FABBRICA

"""""

Inoltre la sottoscritta Commissione ha provveduto a fare un'inchiesta per proprio conto dalla quale sono risultati i seguenti fatti che sotto-

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poniamo alla Vostra attenzione:

1° - La stoffa era stata spedita da Firenze sotto la denominazione di " colli vari " con l'ordine di farla proseguire per Roma. La stoffa viaggiava senza la bollette di autorizzazione di sblocco e transito.-

2° - Dalla verifica delle polizze trasporti risultò che tali spedizioni erano state effettuate altre volte per un totale di ben quattro spedizioni a partire dall'Ottobre 1944 e per un complessivo di circa 30 - 35 quintali di stoffa.

3° - Tali stoffe sono state prelevate dal magazzino del Sig. Calamai di Firenze, cognato dell'attuale Direttore Amministrativo della "Lardarello", Dr. Carlo Mannozzi.

4° - La merce viaggiava a carico del Dr. Mannozzi come risulta dai relativi addebiti fattigli dall'Ufficio Contabilità.

A questo punto, Eccellenza, a prescindere dal fatto gravissimo della sottrazione al normale consumo di una così importante partita di generi contingentati (l'accertamento delle responsabilità è compito dell'Autorità di P.S. ed esula quindi dai compiti dei sottoscritti) sta il fatto altrettanto grave di avere il Dr. Mannozzi anteposto interessi personali a quelli della Società. Infatti i sottoscritti tengono a segnalare come in un periodo così difficile per i trasporti anzichè spedire acido borico all'Agenzia di Roma e quindi realizzare dalla vendita un utile per l'azienda, il Dr. Mannozzi spediva merce per il cognato. E' da notare che i magazzini della "Lardarello" rigurgitano di prodotti borici per mancanza di mezzi di trasporto. (Si osservi che nella circostanza di un recente accordo salariale stipulato dalla Commissione Interna di Fabbrica il Direttore Amministrativo Dr. Carlo Mannozzi, presente il Direttore Generale Ing. Enea Virgili aveva dichiarato testualmente che la Società si trova in condizioni di non poter concedere certi aumenti richiesti dalle maestranze per le difficoltà dei trasporti e la conseguente lentezza con cui vengono effettuate le spedizioni del prodotto).

Il Direttore Generale Ing. Enea Virgili interpellato dai sottoscritti in merito allo scandalo dichiarò di non essere mai stato al corrente della cosa ed aggiunse che il responsabile avrebbe dovuto essere colpito inesorabilmente. - A questo punto la Commissione sottoscritta ha presentato all'Ing. Virgili la seguente lettera con la quale si richiede l'immediato allontanamento del Dr. Mannozzi.

*****

Larderello li, 2/2/49

All'Ing. ENEA VIRGILI
Direttore Generale della "LARDERELLO" S.A. 687

LARDERELLO

**Le Commissioni Interne dei vari Stabilimenti della "LARDERELLO"

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

circa 30 - 35 quintali di [illegible]

3° - Tali stoffe sono state prelevate dal magazzino del Sig. Calamai di Firenze, cognato dell'attuale Direttore Amministrativo della "Lar-derello", Dr. Carlo Mannozzi.

4° - Le merce viaggiava a carico del Dr. Mannozzi come risulta dai relativi addebiti fattigli dall'Ufficio Contabilità.

A questo punto, Eccellenza, a prescindere dal fatto gravissimo della sottrazione al normale consumo di una così importante partita di generi contingentati (l'accertamento delle responsabilità è compito dell'Autorità di P.S. ed esula quindi dai compiti dei sottoscritti) sta il fatto altrettanto grave di avere il Dr. Mannozzi anteposto interessi personali a quelli della Società. Infatti i sottoscritti tengono a segnalare come in un periodo così difficile per i trasporti anzichè spedire acido borico all'Agenzia di Roma e quindi realizzare dalla vendita un utile per l'azienda, il Dr. Mannozzi spediva merce per il cognato. E' da notare che i magazzini della "Larderello" rigurgitano di prodotti borici per mancanza di mezzi di trasporto. (Si osservi che nella circostanza di un recente accordo salariale stipulato dalla Commissione Interna di Febbrio il Direttore Amministrativo Dr. Carlo Mannozzi, presente il Direttore Generale Ing. Enea Virgili aveva dichiarato testualmente che la Società si trova in condizioni di non poter concedere certi aumenti richiesti dalle maestranze per le difficoltà dei trasporti e la conseguente lentezza con cui vengono effettuate le spedizioni del prodotto).

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*****

Larderello li, 2/2/45

All'Ing. ENEA VIRGILI
Direttore Generale della "LARDERELLO" S.A. 687
L A R D E R E L L O

"Le Commissioni Interne dei vari Stabilimenti della "LARDERELLO" riunitesi in data odierna, sentito il parere delle maestranze in riferimento al furto avvenuto a Massa Marittima di un camion trasportante a Roma prodotti borici e colli di merce varia non inerenti gli interessi della Società e affinchè i rapporti esistenti tra Direzione e maestranze

./.

Declassified E.O. 12356 Section 3.3/NND No. 78 5019

si mantengano nella concordia necessaria per la ricostruzione, domandano quanto appresso:

1° - Indipendentemente dai risultati dell'inchiesta delle Competenti Autorità Giudiziarie l'allontanamento immediato dall'ambito della Società "Larderello" del Dr. Carlo Mannozzi - Direttore Amministrativo Capo del Personale.-

2° - L'allontanamento dalla Società stessa di tutti coloro i quali dalle risultanze dell'inchiesta fossero compromessi nella lesca manovra.""

LE COMMISSIONI INTERNE DEGLI STABILIMENTI
DELLA "LARDERELLO" S.A.

*****

In risposta alla lettera suddetta l'Ing. Virgili dichiarò ai sottoscritti che in assenza dell'Ing. Nicarelli egli non poteva prendersi la responsabilità di allontanare il Mannozzi e fece presente che quest'ultimo ha in questo momento dei compiti di grande responsabilità nei confronti della "Larderelle" per cui il suo allontanamento si rende molto difficile. Rilevando la scorrettezza della persona che egli suppone abbia sporto la denunzia che portò al fermo del camion a Massa Marittima anzichè a Larderelle, l'Ing. Virgili fece osservare che sarebbe stato meglio, sono sue testuali parole, che i panni sporchi venissero lavati in famiglia, così per lo meno c'era la possibilità che la pannina rimanesse alle maestranze della "Larderelle. Chiese inoltre la collaborazione della Commissione di Fabbrica per identificare l'autore della denunzia stessa. Nei riguardi dell'affermazione dell'Ing. Virgili di non essere stato al corrente della cosa i sottoscritti rilevano che il Direttore Generale di un'azienda che ha in mano ogni settore ed ogni minuto particolare dell'industria che dirige, qual'è appunto l'ing. Virgili, non dovrebbe avere ignorato un fatto del genere che era divenuto quasi un sistema per la frequenza del suo ripetersi; e deducono logicamente che il Direttore si è dimostrato in questa circostanza non all'altezza del posto cui è preposto.

Con ossequio

Bertini Arnaldo — Marselli Libero
Allori Alcide — Fanori Oliviero
Tiandra Pietro — Bianciardi Osvaldo
Sardini Aldo — Giorgerini Giuseppe
Lupetini Luigi — Bruni Ettore
Graziani Pietro

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

LA COMMISSIONE INTERNA DEGLI [illegible]

DELLA "LARDERELLO" S.A.

*****

In risposta alla lettera suddetta l'Ing. Virgili dichiarò ai sottoscritti che in assenza dell'Ing. Micarelli egli non poteva prendersi la responsabilità di allontanare il Mannozzi e fece presente che quest'ultimo ha in questo momento dei compiti di grande responsabilità nei confronti della "Larderello" per cui il suo allontanamento si rende molto difficile. Rilevando la scorrettezza della persona che egli suppone abbia sporto la denunzia che portò al fermo del camion a Massa Marittima anzichè a Larderello, l'Ing. Virgili fece osservare che sarebbe stato meglio, sono sue testuali parole, che i panni sporchi venissero lavati in famiglia, così per lo meno c'era la possibilità che la pannina rimanesse alle maestranze della "Larderello. Chiese inoltre la collaborazione della Commissione di Fabbrica per identificare l'autore della denunzia stessa. Nei riguardi dell'affermazione dell'Ing. Virgili di non essere stato al corrente della cosa i sottoscritti rilevano che il Direttore Generale di un'azienda che ha in mano ogni settore ed ogni minuto particolare dell'industria che dirige, qual'è appunto l'Ing. Virgili, non dovrebbe avere ignorato un fatto del genere che era divenuto quasi un sistema per la frequenza del suo ripetersi; e deducono logicamente che il Direttore si è dimostrato in questa circostanza non all'altezza del posto cui è preposto.

Con ossequio

Bertini Osvaldo
Mario Mannozzi
Bianchi Leonardo
Sardini Aldo
Comparini Luigi
Bianchini Pietro
E Rio Pietro
Mori Pietro
Cheli Aurelio
Masselli Libero
Baroni Oliviero
Biancioardi Osvaldo
Giorgerini Giuseppe
Benili Ettore
Piero [illegible]

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

LARDERELLO li, 15/2/45 -

On/le Commissione Alleata di Controllo

LARDERELLO

I rappresentanti delle Commissioni Interne di Fabbrica della " LARDERELLO S.A. " domandano a codesta On/le Commissione di Controllo di concedergli un colloquio di carattere riservato dovendo riferire sulla situazione generale degli stabilimenti.-

Con ossequio

[illegible]

[illegible]

[illegible]

Biancardi Osvaldo

[illegible]

Bonomi Oliviero

Bonifazi Ettore

Marco [illegible]

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

Translation - 17 February '45 - Barbera

Larderello 6 February '45

To the Minister of Transport

ROMA

Copy to
Director General of the FFSS ROMA
Major Robert A. Bell LANDERELLO

The undersigned, comprising the internal commission of the Larderello S.A. plants, set forth the following:

On the 27th of January, at 1300 hours, there left Larderello a hired truck engaged by this company for the transport of boric products to the Rome Agency of the Larderello firm. When the truck reached Massa Maritima it was stopped and from an examination of the cargo carried it was revealed that it consisted in part of boric acid and in part of some 30 bundles of material which were registered on the bill of lading as 'various bundles'. The CCRR immediately sequestrated these 'bundles' and commenced an investigation.

By part of the undersigned Commission there has been sent to the Committee of National Liberation of Massa Maritima the following letter:

Larderello 30/1/45

To the Committee of National Liberation of Massa Maritima.

Copy to the workers of Larderello.

"Re: to what occurred last Sunday relative the stopping at Massa M. of a truck carrying to Rome boric products and quantities of material not of interest to the Larderlla firm we ask this Committee to please assist with all its ability the competent authorities in such manner that the investigation will be regularly carried out, complete light being brought into the matter and the punishment severely meted out.

This is the desire of all the workers of the Larderello Company. This Internal Comaission remains at the complete disposition of the Authorities for those clarifications which may be considered necessary for the investigation.

THE INTERNAL COMMISSION OF THE LARDERELLO PLANTS.

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

In addition the undersigned Commission has pr[illegible]ed attempted an investigation all its own from which investigation the following facts resulted which we submit for your attention:
1°- The material had been sent from Florence under the designation of 'various bundles' with the order for it to be sent on to Rome. The material was being transported with the stamp of authorization for thru passage and transit.
2° - From the examination of the bills of lading its results that such shipments had been made other times for a total of four shipments beginning from October 1944 and for a total of some 35 quintals of clothes.
3°- The material were taken from the factory of Sig. Calamai of Florence, brother in law of the Administrative Director of Larderello at Florence Dr. Carlo Mannozzi.
4°- The material traveled at the expense of Dr. Mannozzi as results from the pertinent expenses charged to his account by the accounting office.

At this point, apart from the very serious fact of the withdrawal from normal consumption and use of such an important amount of goods & specifically blocked and reserved (the ascertainment of the responsibility is the duty of public security offices and therefore beyond the competence of the undersigned) there remains the equally serious fact that Dr. Mannozzi placed his personal interests before the interests of the firm. Infact the undersigned wish to point out now in x times so difficult in locating transport rather than ship company products to the Rome Agency and therefore realize profits for the company Dr. Manozzi shipped material for his brother in law. It is to be noted that the storehouses of the Larderello are full of boric products for lack of transport. (It is to be observed that in the deliberation for an increase of pay to workers of the company Dr. Mannozzi had declared that it could not grant an increase in pay inasmuch as it lacked transport to sell the quantities of material that it had manufactured).
The Director General Virgili questioned by the undersigned relative the scandal said he was not aware of what had taken place and added that the guilty one should be punished. At this point the commission presented Engineer Virgili the following letter which asked for the resignation of Dr. Mannozzi.

Larderello 2 Feb 45

To Ing. Enea Virgili
General Director of the Larderello Plants.

The Internal Commissions of the various establishments of the Larderello Company having met together today, having heard the wishes of the workers in reference to the incident at Massa M., of a truck intended to transport company products to Rome being used for personal reasons and in order that relations between workers and the directing group be kept on the best possible level for purposes of

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

reconstruction demand as follows:

1°-Independently of the results to be gained by the competent authorities, the immediate dismissal from the Larderello Company of Dr. Mannozzi.
2°- The dismissal from the company of all those giwi guilty of participation in the truck scandal.

The Internal Commissions.

In reply to the above letter Sig. Virgili declared that in the absence of the Ing. Micurelli he could not undertake the responsibility of dismissing Mannozzi and revealed that this latter has , at the present moment, duties of great importance before the Larderello interests for which his dismissal would be rendered very difficult. Making mention of the indiscretion of the person whom he supposes had prompted the denouncement which led to the stopping of the truck at Massa M. rather than at Larderello, Ing. Virgili observed that it would have been better, these are his very words, that the dirty clothes should be washed within the family, thus at least there was the possibility that the dirty clothes would have been reserved for the workers of Larderello. He asked in addition the cooperation of the Factory Commission to identify the author of the denouncement. In face of the affermation of Ing. Virgili that he was not aware of the affair, the undersigned bring up for attention that the Director General of a firm who has in hand every division and every smallest particular of the industry which he directs, which is his job, should not have been ignorant of a matter which repeated itself four times and must deduce logically that the director has demonstrated himself in this matter as not of sufficient delicacy or discretion for the high post he fills.

Signed

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

Società Romana di Elettricità
ANONIMA SEDE IN ROMA VIA POLI 14
CAPITALE L. 325 000 000 VERSATO

IL PRESIDENTE

Roma, 19 Febbraio 1945

HEADQUARTERS ALLIED COMMISSION
Electrical Section
Public Works & Utilities Sub-Commission
R O M A .

Domenica 25 corr. alle ore 15,30 il Ministro dei Lavori Pubblici S.E. Meuccio Ruini visiterà la nostra nuova centrale idroelettrica a serbatoio del Canterno, che sta per entrare in funzione contribuendo a migliorare l'andamento dei servizi elettrici.

Questa Società sarà lieta se codesta Divisione, che ha contribuito a tale realizzazione vorrà presenziare, unitamente ad un rappresentante del Comitato Consultivo dell'Energia Elettrica dell'Italia Centrale, alla visita del Ministro.

(Enrico Parisi)

Enrico Parisi

On Sunday 25th instant at 15.30 the Minister of Public Works S.E. Meuccio Ruini will pay a visit to our new hydroelectrical reservoir Station of Canterno which is going to enter into operation, thus contributing to the bettering of electrical services.

This Company will be very glad if this Division, which has contributed to realize this enterprise, will send a representative, together with one representing the Consultive Committee of Central Italy electrical energy to attend the Minister's visit.

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Wash
Ariz
Ore
Idaho

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

Ministero dell'Industria, del Commercio e del Lavoro — Roma, 6 FEB. 1945 — 69

Direzione Generale delle Miniere e della Metallurgia

Ministero dell'Industria, del Commercio e del Lavoro
DIREZIONE GENERALE DELLE MINIERE E DELLA METALLURGIA

Divisione VI
Pos. N° 145

Fascicolo
Allegati

Risposta al foglio
Div. Fas. N°

Al A.C. -Sub Commissior of Public Works and Utilities-

OGGETTO: Mancanza di energia elettrica in provincia di Teramo -

E stato segnalato a questo Ministero che in provincia di Teramo, soprattutto nei comuni di Atri e Giulianova, è motivo di tensione fra la popolazione civile la mancanza di energia elettrica.

Si prega pertanto far conoscere quanto potrà essere eventualmente fatto per ovviare al lamentato inconveniente.

IL MINISTRO

PA/TO

RECEIVED
P.W. & U. S/C A.C.
6 MAR 1945 158

681

translation attached

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

Tel. 473.906 HEADQUARTERS ALLIED COMMISSION VER/lem
Public Works and Utilities Sub-Commission
APO 394

68

Reference: 158/PWU 3 March, 1946

SUBJECT: Reconstruction Transformer Station Siena.

TO : Regional Commissioner, Toscana Region
(Attention Regional Engineer)

1. This is to acknowledge recept of report of project, sie 158 covering plans for reconstruction of transformer station Siena, sent with your letter dated 22 February 1945, file EVIII/100/214/3.

2. This report has been referred to the Italian Minister of Public Wrks, and your office will be informed of the action taken.

By command of Rear Admiral STONE :

for

W.M. LAPPEN
Lieut-Colonel,
Chief Electrical Div.

C.C. Italian Ministry of Public Works
(Att. Prof. A. Asta).

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

Tel.489081 HEADQUARTERS ALLIED COMMISSION LWL/ac
Ext. 317 Public Works and Utilities Sub-Commission
APO 394

67

Reference : 158/PWU 3 March 1945

Subject : Allocation of power
to Pedlescritta (UNES CO.)

To : REGIONAL COMMISSIONER MARCHE-ABRUZZI REGION
(Attention Regional Engineer)

1) - Attached request is transmitted to you for necessary action.

By command of Rear Admiral STONE,

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

2 enclosures

678

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

Subject:- Restoration of Transmission Lines.

C.E. No 1 District.
No. 166 C.E. Works.
CE 3034.
24 Feb 45.

Public Works & Utilities Sub-Commission,
H.Q., A.C.

P.W & U Sub-Commission
25 FEB 1945 187

Reference progress report for January, 1945. The following alterations can now be made.

TRANSMISSION LINES.

30 K.V. LISCIA - ANCONA 50 Km.	-	completed) in operation
30 K.V. LISCIA - RIMINI 48 Km.	-	completed)
60 K.V. FABRIANO - PERUGIA 53 Km.	-	completed - in operation to GUALDO - TADINO.
30 K.V. PESARO - F. MAGLIO 30 Km.	-	completed.

WH/FJC.

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

Tel. 489061 - Ext. 551

To Com. Affs File

HEADQUARTERS ALLIED COMMISSION
APO 394
ECONOMIC SECTION

LAJ/LED/es

158/PWU

1 March 1945

65

SUBJECT: Operation Larderello Plant

TO : Regional Commissioner - Toscana Region

1. Following our telephone communication the question of the operation of the Larderello Plant has been discussed with the Public Works and Utilities Sub-Commission. It has been agreed that Major V. F. Vallero will be detached from the electrical reconstruction team now working under Major Bell, stationed at Florence, and will be assigned to your region for the purpose of supervising the operations at the Larderello Plant, under the control and direction of your Region.

2. On all operational and labor problems Major Vallero will receive directions from you. Insofar as the construction program is concerned, which must be correlated with all other electrical reconstruction operations in 5th and 8th Armies, instructions will be transmitted to you by an authorized representative of the Public Works and Utilities Sub-Commission.

3. Major Vallero will be directed to report to you so that proper arrangements can be made to carry out the functions assigned to him.

By Command of the Chief Commissioner:

(sgd) E B. McKinley

EDWARD B. MCKINLEY
Brigadier General, USA
Acting Vice President
Economic Section

677

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

No. 478.906

64

MEMORANDUM

File under

Reference : 158/PWD

28 February 1945.

Subject : Activities of Major Bell in Eighth Army Area.

To : Director, Public Works and Utilities Sub-Commission.

1. Reference is made to the letter (61) from 170 CE Works mentioning the visit of Major Bell to the Eighth Army Area, designating certain work which can be done under the supervision of this Sub-Commission.

2. In a pencil note, you asked the meaning of the letter and if the 170 CE letter is a criticism.

3. I understand that this is the first time that the Eighth Army has permitted activities of this nature in area in which they have an interest, and furthermore that relations between Major Bell and the 170 CE Works are very close.

4. In consideration of the above, I consider the letter first as a compliment, and secondly as the means of recording an agreement.

VIDAL S. [illegible]
Major Infantry.
Operation and Transmission Dep.
Electrical Div.

U.S. Major Bell.

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

Copied on file 63

Tel. 473.906 RTH/lam

MEMORANDUM

REFERENCE: 156/PWU 27 Feb.1945
SUBJECT : Electric Power Montecatini
TO : Industry Sub-Commission
FROM : Public Works and Utilities S/C

1. Reference your letter AC/56:8/IND dated 27 Feb.1945.

2. Major William Rivett, Electrical Officer, No. 1 District, was contacted this date. He stated that Electrical power for Montecatini Mine and Plant at Cabernardi should be ready in approximately ten (10) days. He further stated however that it is not feasable at this time to serve plant from location near Centrale di Serre, but proposes to furnish power from Bassoferrato.

for

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

Foto Folio 282 File 060 Supra

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

Tel. 478.906

VSR/ma 62

MEMORANDUM

Reference : 158/EWU 28 February 1945.

Subject : Activities of Major Bell in Eighth Army Area.

To : Director, Public Works and Utilities Sub-Commission.

61

1. Reference is made to the letter from 170 CE Works mentioning the visit of Major Bell to the Eighth Army Area, designating certain work which can be done under the supervision of this Sub-Commission.

2. In a pencil note, you asked the meaning of the letter and if the 170 CE letter is a criticism.

3. I understand that this is the first time that the Eighth Army has permitted activities of this nature in area in which they have an interest, and furthermore that relations between Major Bell and the 170 CE Works are very close.

4. In consideration of the above, I consider the letter first as a compliment, and secondly as the means of recording an agreement.

R.

VIVAL S. RENTON
Major Infantry,
Operation and Transmission Dep.
Electrical Div.

C.C. Major Bell.

Noted 8/2
Folio 64 in a copy

674

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

Subject:- Electricity Supply.

RECEIVED
P.W. & U.S/C A.C.
27 FEB 1945 158

170 CE Works.
Eighth Army.
CE/21/21

24 February 45.

AFHQ for DW.

Copies to :- Elect Div Public Works & Utilities Sub-commission A.C. CMF.
CE 1 District.
AMG, Rear Eighth Army.

Ref visit of Major BELL of Elect Div of A.C.

1. It has been arranged that activities of this div in Eighth Army area be confined to the repair of 120 KV line RICCIONE - PONTECINO and RICCIONE 120 KV frequency changing station.

CHF/obw

Col.,
170 CE Works.

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

60

COPY

RECEIVED
P.W. & U S/C A.C.
23 FEB 1945 158

HEADQUARTERS
ALLIED MILITARY GOVERNMENT
TOSCANA REGION

RVIII/78/BIS/15

22 February 45

Subject: Policy - Larderello.

To : Regional Commissioner - Toscana Region

1. Ref. the Chemical/Electric plant Larderello Pisa Province.

2. Major Bell who is in charge of the electric power plant advises this Division that he is having a certain amount of trouble with the staff and employees, and is anxious over the financial stability of the firm.

3. Lt.Col. Lee confirms that the Plant is being controlled by H.Q. A.C.

4. Under the circumstances this Division is not taking action in the matter and has advised Major Bell to contact H.Q. A.C.

J.F. HARRIS
Major G.A.
Industry Division

Copy to: H.Q. A.C. - Industry Sub-Commission
Public Works & Utilities S/C

JFH/ru
1 x 2

Col Kapper
Pls note
Thx. 27/2

672

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

Tel.489081
Ext. 317

CONFIDENTIAL

LWL/a

59

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

Reference : 138/PWU

24 Feb. 45

Subject : Indarello situation

To : ADVANCED SECTION ELECTRICAL DIVISION
PUBLIC WORKS AND UTILITIES SUB-COMMISSION, AC
(Attention Major R.A.Bell)
in care of Florence Province AMG
Telephone - Florence 1153

1) - Enclosed herewith are three letters bearing on the above for your information.

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

enclosures :
1 - ltr add. to Col. Densmore
2 - " dated 14/2/45 - No.Sec.
3 - " " 6/2/45 - Toscana Region

671

2 2 5 0 1

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

RECEIVED
P.W & U. S/C A.C
25 FEB 1945 158

ENGINEERING DIVISION
HEADQUARTERS
AMG/AC
ABRUZZI-MARCHE REGION
C.H.F.

HQ AC
Ref 74/w
158
HEADQUARTERS
25 FEB 1945

TO : HQ.AC. P.W.& U. Sub-Commission
(Atten Maj. Renton)
SUBJECT : Reduction of electricity Supply to Aquila Area.
REF. : R5/516/2/4
DATE : 24 February 1945.

Reference your 158/PWU dated 23 Feb.45.

1. Arrangements made to supply this Area with 500 KW from Terni as an emergency measure are much appreciated.

2. The increase in the load measured at Antrodoco to between 2000 and 3000 KW resulted from a phonogram received in Aquila by Ing. Puglielli of UNES on 16 Feb.45 from UNES Head office in Rome. This phonogram advised that 3000 KW had been put at the disposal of UNES over here and they immediately amended their distribution arrangements. Ascoli terminated their supply to Aquila which drew approx 1000 KW for Aquila city and district and 600 KW for Avezzano city and district from Antrodoco. Ascoli also helped themselves to 1000 KW from Antrodoco. This was the rough breakdown of the 2600 KW peak recorded at Antrodoco on 21 Feb.

3. A copy of the phonogram is enclosed as it would appear UNES, Rome, had no authority to advise their office here that more than 500 KW would be available and you may wish to investigate the circumstances in which it was sent.

4. A second phonogram received here yesterday from UNES Rome, intimated that the supply from Antrodoco would be limited to 500 KW from 0000 hours today.

5. I immediately instructed UNES Aquila, to disconnect Ascoli and Avezzano from Antrodoco and to impose restrictions in Aquila to limit the load to 500 KW. At the time of writing

670

:/:

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

(11,30 hrs) Antrodoco seemingly has had no cause to cut us off but test will come between 1800 and 2200 hrs.

6. To compensate, for the loss of supply from Antrodoco Avezzano is taking 300 KW from Ascoli by agreement with Ing. Bofondi and 200 KW from Pettorano.

7. Paras 5 and 6 confirm the information I phoned to Capt. Best yesterday afternoon.

8. I understand from the same conversation that 1 District are prepared to consider a revision of the total allocation of 3500 KW (3000 KW to Camerino and 500 KW to Antrodoco) in favour of Aquila since at present Camerino is not taking more than about 1000 KW.

9. Before submitting a case to 1 District I am putting pressure on UNES to make good with the 500 KW. They are all too prone to take the easy way out and a day or two's inconvenience will do them no harm. I am also using the situation to force them to hasten completion of the Pescara - Bussi line, a pill they are finding it hard to swallow.

For the Regional Engineer

J.E. FODEN
Major
Regional Electrical Officer

Copy to

C.E. nº 1 District
(Att.Maj.Rivett).

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

COPY

FONOGRAMMA

ING.PUGLIELLI - AQUILA
e p.c. ING. BOFONDI - ASCOLI
ING.MERLITTI - PESCARA

In relazione all'iniziativa forniture Terni e di Antrodoco e perdurando l'indisposizione Ing.Pandoli, La preghiamo di voler personalmente curare che sull'alimentazione siano allacciati tutti i centri di codesto Esercizio per i quali vi sia possibilità di farlo tenendo presente il fonogramma del'Ing. Pandoli del 12 corrente.- L'Energia che resterà disponibile fino alla potenza complessiva di 3000 KW, sarà messa a disposizione di Ascoli, Pescara previ accordi da prendere con l'Esercizio tecnico e gli Esercizi interessati.- Occorre disporre che la cabina di antrodoco segnali a questa direzione almeno due volte la settimana le punte massime giornaliere, novità di tensione e frequenza.-

F.to Direzione Generale = Roma

Trasmette PANDOLFI
Riceve Marinelli li 16/2/45 alle ore 9.

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

RECEIVED
P.W. & U. S/C A.C.
29 JAN 1945 110 158.

57

HEADQUARTERS ALLIED COMMISSION
APO 394
ECONOMIC SECTION

Tel. 271
ES/ 9.02

EDN/mcm
29 Jan. 1945

SUBJECT: Appointment of a Commissario for Lardarello

TO: P.W. & U. Sub-Commission
Attention: Colonel L. A. Jenny

Colonel Densmore asks if you will discuss this memorandum with him personally before further discussions are held with Brigadier Upjohn

E.D. NASH, Major
Special Assistant to
ADCOS/ECONOMIC SECTION

Enc. 2 copies translation Sec. An. "Larderello".
Memorandum 110/PWU

Tel. 478.906

VSR/ms

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

R 56

138/PWU

24 February 1945.

SUBJECT : Rehabilitation of Tavarnuzze - Rifredi Transmission Line.

TO : Advanced Section Electrical Division Public Works and Utilities Sub-Commission.

(W 9)

1. Reference your letter dated 19 February 1945, Subject: Rehabilitation of Primary Line, Tavarnuzze - Rifredi.

2. Your understanding as to the intended use of the line is correct, namely that it will be used to feed the railroad at Bologna, as well as the city of Bologna.

3. As was suggested to Major Vallero of your office on 23 February, it would be appreciated if plans were made whereby this line can be energised if necessary from the 120 KV Valdarno line running north from Chiusi.

4. In a conversation with Captain Harry Rost today, Major Frank Kubale stated that he will require 5,000 kilowatts at Ca' di Landino (on the Rifredi - Bologna line) by 1 May 1945. He would prefer it at 60 KV but can use 120 KV.

VSR/ms

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

666

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

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

General Office

Tel. 478.306 HEADQUARTERS ALLIED COMMISSION VSF/lam
Public Works and Utilities Sub-Commission
APO 394

55

Reference: 183/PwU 22 Feb. 1945

Subject : Reduction of Electricity Supply to Aquila Area

To : Regional Commissioner, Attention Regional Engineer, Abruzzi - Marche Region.

(20)

1. In accordance with your 1 February 1945 letter, file RS/516/2/4, Subject: Electricity Supply, Aquila, an emergency supply of electricity was arranged to be furnished to the Aquila area from Terni. Because of system conditions the power was not made available immediately; however it was furnished as soon as possible. The power was furnished following an telephone agreement between Major Rivett, of No. 1 District and Major Henton of this Sub-Commission. At that time, Major Rivett was told that the power needed was 500 kilowatts, and that the need was based upon an emergency situation which had arisen in the Aquila area because of a breakdown at Carassai, and a freeze at Bologna.

2. Yesterday, 21 February, the load measured at Antrodoco reached 2,600 kilowatts. Naturally, since the available power already has been allocated by No. 1 District, the Central Italy electric system can not stand this drain.

3. Instructions have therefore been given from the Electrical Division of this Sub-Commission to the Central Control Room that the Antrodoco electricity supply shall be cut off at 1400 hours to-morrow unless the load is limited to 500 kilowatts.-

By Command Rear Admiral Stone.

LSK for
W.M. LARPER
Lieut-Colonel,
Chief Electrical Division

C.C.- C.E. No. 1 District
(Att. Major Rivett)

665

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

Revised 3d

R

Tel. 473804 HEADQUARTERS ALLIED COMMISSION VER/lcm
APO 394
Public Works and Utilities Sub-Commission

References 157/PSU 21 Feb. 1945

54

SUBJECT : Grounding of Transformer Neutral

TO : Terni, Orvieto' per l'Industria

(53)

1. Reference is made to your letter dated 17 February 45, file 457, 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 Baletta would be grounded. It was further agreed that there would be no grounding of transformers of 30KV 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 Baletta transformers.

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

C.C. S.E.P.C.
A.C.C.A.
P.B.I.C.
Col. Williams
Secretary Advisory Committee
for Electric Power

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

File 158

TERNI · SOCIETÀ PER L'INDUSTRIA E L'ELETTRICITÀ
ANONIMA · SEDE LEGALE IN ROMA · DIREZIONE GENERALE IN GENOVA
CAPITALE L. 1.200.000.000.

SERVIZI ELETTRICI

INDIRIZZI:
POSTA: CASELLA POSTALE TERNI
TELEGRAFO: ELETTROTERNI
TELEFONO N. 58

C.P.C. ROMA 18557 - GENOVA 12090
MILANO 243236 - PERUGIA 12945
RIETI 6475 - TERAMO 20386
TERNI 4149
C/C POSTALE GENOVA N.A/526

53

HEADQUARTERS ALLIED COMMISSION
PUBLIC WORKS AND UTILITIES
SUB - COMMISSION
ELECTRICAL DIVISION

Vs.
Ns. 427 /Eserc.Centr.

PAPIGNO 17 Febbraio 1945

R O M E

SUBJECT: Neutral to ground connection

We are briefly recapitulating what has been discussed days ago between Prof. Angelini and Maj Renton regarding opportunity of connecting to ground the neutral of Galleto, and afterwards, of Cotilia transformers.

1) - The shortage of machinery (especially of transformers) and the large capacity of each generating unit lead to the necessity of adopting all the provisions which give a contribution to avoid damage whose repairing would be log and expensive.

2) - In conformity with these ideas we have reduced, in agreement with our customers, the insulation of the lines operating at 60,000 volts, but built for higher voltages, in order to co-ordinate, as much as possible, their breakdown with those of the transformers.

Of course the reduction of insulation has been carried out for only two or three kilometers from Galleto. We think however to have greatly reduced the danger of breakdowns on the bushings and on the windings of the transformers.

663

3) - From our stan dpoint the connection to ground of neutral would efficiently complete the protective measures of

Il Foro economico per la decisione di qualunque controversia sul contenuto della nostra Società è quello di Genova

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

SUB - COMMISSION

ELECTRICAL DIVISION

PAPIGNO 17 Febbraio 1945

R O M E

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Of course the reduction of insulation has been carried out for only two or three kilometers from Galleto. We think however to have greatly reduced the danger of breakdowns on the bushings and on the windings of the transformers.

3) - From our stem dpoint the connection to ground of neutral would efficiently complete the protective measures of machinery and equipment. This measure would be particularly im

Vincere

54 refers

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Il Foro comunicato per la pubblicazione contraddittoria nei confronti delle nostre Società è quello di Genova

portant for the transformers not only because there would be no possibility for the neutral to reach the whole tension in case of a phase-to-ground, but also for the fact that in the repairs on the transformers themselves, we may repair the insulating tubes, so as to place the damaged part near the center of the wje. With this measure the operation of the 38,000 kVA 10,000/120,000-150,000 transformers of Collilo would be safer.

The connection to ground of the neutral would limit also the surge voltages wich arise on the windings of the alternator for effect of the capacity between high tension and low tension windings of the transformers. And, as you know, our alternator have been lor.el. repaired.

c) - Of course we don't ask that the neutral is connected to ground in all stations and substation, but only - at least for the present and, if you wish so, as a kind of experiment - in the Terni Co. plants.

TERNI
SOCIETÀ PER L'INDUSTRIA E L'ELETTRICITÀ

P/GT.AMA/SL

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

TERNI · SOCIETÀ PER L'INDUSTRIA E L'ELETTRICITÀ
ANONIMA · SEDE LEGALE IN ROMA · DIREZIONE GENERALE IN GENOVA
CAPITALE L. 1.200.000.000.

SERVIZI ELETTRICI

INDIRIZZI:
POSTA: CASELLA POSTALE TERNI
TELEGRAFO: ELETTROTERNI
TELEFONO N. 58

C.P.C. ROMA 18652 - GENOVA 12090
MILANO 243196 - PERUGIA 12945
RIETI 6478 - TERAMO 20788
TERNI 6149
C/C POSTALE GENOVA N. 4/526

Vs.
Ns. 427 /Esero.Centr.

PAPIGNO, 17 Febbraio 1945

QUARTIER GENERALE COMMISSIONE ALLEATA
SOTTOCOMMISSIONE LAVORI E SERVIZI PUBBLICI
R O M A

OGGETTO: Messa a terra del neutro

Riassumiamo brevemente quanto comunicato di presenza giorni or sono dal Prof. Angelini al Magg. Benton in merito alla opportunità di collegare a terra il neutro dei trasformatori di Galleto e, in seguito, di Cotilia.

1) Le scarsità di macchinario (in special modo dei trasformatori) e la notevole potenza unitaria dei gruppi generatori impongono a noi la necessità di adottare tutti i provvedimenti che contribuiscono ad evitare danni per la riparazione dei quali potrebbero occorrere lavori lunghi e costosi.

2) In questo ordine di idee abbiamo provveduto, d'intesa con i nostri utenti, a ridurre l'isolamento delle linee funzionanti a 30.000 V., ma costruite per tensione superiore, allo scopo di coordinare per quanto possibile la loro rigidità con quelle dei trasformatori.

Naturalmente la riduzione di isolamento è stata effettuata per soli 2 o 3 chilometri di linee da Galleto, riteniamo che in tal modo sia notevolmente limitato il pericolo di sovratensioni sui passanti e negli avvolgimenti dei trasformatori.

662

3) Secondo il nostro punto di vista la messa a terra del

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

SOTTOCOMMISSIONE LAVORI E SERVIZI PUBBLICI

Ns. 401 /Eserc.Centr.

R O M A

PAPIGNO 17 Febbraio 1945

OGGETTO: Messa a terra del neutro

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1) La scarsità di macchinario (in special modo dei trasformatori) e la notevole potenza unitaria dei gruppi generatori implica secondo noi la necessità di adottare tutti i provvedimenti che contribuiscono ad evitare danni per la riparazione dei quali potrebbero occorrere lavori lunghi e costosi.

2) In questo ordine di idee abbiamo provveduto, d'intesa con i nostri utenti, a ridurre l'isolamento delle linee funzionanti a 60.000 V., ma costruite per tensione superiore, allo scopo di coordinare per quanto possibile la loro rigidità con quelle dei trasformatori.

Naturalmente la riduzione di isolamento è stata effettuata per soli 2 o 3 chilometri di linea da Galleto. Riteniamo che in tal modo sia notevolmente limitato il pericolo di scariche sui passanti e negli avvolgimenti dei trasformatori.

662

3) Secondo il nostro punto di vista la messa a terra del neutro completerebbe efficacemente le misure di protezione del macchinario e delle apparecchiature. Il provvedimento in parola

./.

Vincere

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

avrebbe particolare importanza per i trasformatori non soltanto per il fatto che sarebbe escluso la possibilità che il neutro assuma la tensione concatenata in caso di terra su una fase, ma anche per la circostanza che nella riparazione dei trasformatori stessi i tubi isolanti possono essere disposti in modo tale da far corrispondere la parte danneggiata nelle vicinanze del centro stella. Con tale provvedimento verrebbe reso più sicuro il funzionamento del trasformatore da 33.000 kVA. rapporto 10.000/120.000-150.000 già installato a Cotilia e in corso di riparazione presso la Centrale di Vallato.

La messa a terra del neutro limiterebbe altresì le sovratensioni indotte per effetto di capacità (fra avvolgimenti ad alta e basse tensione dei trasformatori) sugli avvolgimenti degli alternatori che, come è noto, sono stati in gran parte ricostruiti.

4) Naturalmente non obiettiamo che il neutro venga messo a terra in corrispondenza di tutti i centri di produzione e trasformazione, ma soltanto - almeno per ora e, se si vuole, in via di esperimento - presso gli impianti della "Terni".

TERNI

Ing. AMA/SL

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

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

52

Tel. 489081 Ext. 320

HEADQUARTERS ALLIED COMMISSION
APO 394
ECONOMIC SECTION

LAJ/ram

14 February 1945

ISE/PWJ

SUBJECT: Appointment of Commisario for Larderello

TO : Minister of Transports

1. Your communications of 16 and 26 January and 10 February have been received and the matter has been investigated.

2. We understand that Prince Ginori, whose family originally was in control of the Larderello Plants, has been endeavoring to appoint someone representing his family to obtain control of the property. On the other hand we understand, from your communications, that the Italian State Railways have a vital, if not controlling interest, in this property and for that reason you are desirous of having a Commisario appointed to represent the Italian State interests in that property.

3. In view of the fact that Engineer Vergili of the Italian State Railways has been appointed by us as the Italian engineer in charge of the actual rehabilitation of the electrical plants at Larderello, working directly under the supervision of the Public Works and Utilities Sub-Commission of A. C., we believe that the State interests are amply protected at this time.

4. We also wish to point out that the expeditious rehabilitation of this plant is of extreme military importance and that we can not do any thing that might jeopardize progress in this respect. At the present time good progress is being made by your engineer under Major R. A. Bell of the Public Works and Utilities Sub-Commission and we believe that this relation should not be disturbed for the time being.

5. We also wish to point out that we feel that we might again have labor difficulties if a change in the present organization were made, a condition which we are very anxious to avoid.

59 Rife

661

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6. In view of the above we do not desire to have a Commisaric appointed by you at this time.

LDP

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

Return to PWRD S/C.

Subject:- Rehabilitation of Electric Power Supply Orte - Terni Area.

50

RECEIVED
P.W & U S/C A.C
23 FEB 1945 158

Military Railway Service
C.M.F.
Tele: Firebox 84
Tn.A.S.(E)/14-11A.
22 February 1945.

To:- Director General,
I.S.R., Rome.

R

Copy to:- Sezione Lavori & Costruzioni,
I.S.R., Rome.

Public Works & Utilities Sub-Commission,
H.Q., A.C., Rome.(Your 158/PWU of 12 Feb., which was received on 19 Feb., refers.)

In order to obtain electric power at 120 K.V. from the Terni - Galletto generating plant for supplying the railway network and the Terni - Florence power line at that voltage, it is necessary to bring into use as soon as possible one of the two groups of 30,000 K.V.A. Regulating transformers at Orte.

The overhead high tension power lines are already under repair and this work will soon be completed, and will enable power at 150 K.V. to be fed from Galletto to Orte Sub - station where the voltage will be regulated to 120 K.V. and fed back to Villa Valle substation for distribution at the latter voltage to the Guincana - Foligno - Fossato - Genga line for Railway substations and also over the Terni - Chiusi - Florence line for supplying the Florence area.

The two power lines to be used from Galletto to Orte and Orte to Villa Valle are the lines of the Italian State Railways and it will be necessary for a working agreement to be arranged between the Terni Society and the Italian State Railways for the transmission of power in excess of that required for Railway purposes.

It is necessary however to commence work 859
immediately on the preparation of the Regulating transformers at Orte in order that one group can be used as soon as the transmission lines are ready. The Regulating transformers are apparently undamaged and the work required is to have them inspected, filled with oil and tested. The necessary transformer oil is already on site.

Will you please arrange for this work of high

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

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

I.S.W., Rome.

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H.Q., A.C., Rome. (Your 158/PWU of 12 Feb., which was received on 19 Feb., refers.)

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Will you please arrange for this work of high priority to commence immediately and to be completed without delay.

659

[signature]
Brigadier,
Director, Military Railway Service.

Lt Col Tapper
May 20/7

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

Tel. 478.394

9/mb

ETO UNITED STATES ARMY
APO 394
Public Works and Utilities Sub-Commission

50

References : 158/PWU

23 February 1945

Subject : Transmittal of Electric Plant Rehabilitation Report.

To : S.W.A.P. APO
O.B. 15 Army.

Ref. Letter 19 Feb. 45 - Eng.Cent.(AR) - Engr./2002.

1. Attached is a copy of a report prepared by the Electrical Section of the Public Works and Utilities Sub-Commission detailing the production of electricity and the progress of repairs to electric plants.

2. You will be placed on mailing list for future reports.

W.H. LAWSON
Lieut-Colonel
Chief Electrical Div.

C.O. Eng. Section (AR) APO
O.B.E.F.

46 Rufus

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

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

49

RAB/ab

Florence, 6 Via Cerretani
Telephone 1153
19th Feb. 1945

TO: Lt-Col. Lapper
P.W. & U. Sub Commission
Allied Commission APO 394

SUBJECT: Rehabilitation primary line
Tavarnuzze - Rifredi

Please forward answer to attached to this Office. As I understand it, this line is primarily for the Florence - Bologna Railway and later for service to Bologna.

RECEIVED
P.W & U S/C A.C.
23 FEB 1945 158

1 enclosure

56 refers

Major.

P.W. & U. SC, Electr. Div.

657

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

Translation

MINISTERO DELLE COMUNICAZIONI
Ferrovie dello Stato

Firenze, 14 Febr. 1945

SUBJECT: Rehabilitation
primary line Tavarnuzze-Rifredi

TO: On. Servizio Lavori e Costruzioni
R o m e

TO: F.W. & U. Sc, A.C.
F l o r e n c e

The above mentioned works have been achieved on Friday 9th February 1945.

We are awaiting to know - in due time - how the ends of the line must be put in action.

Chief of Signals &
Electric Plants Office
(signed illegible)

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

TERNI · SOCIETÀ PER L'INDUSTRIA E L'ELETTRICITÀ
ANONIMA · SEDE LEGALE IN ROMA · DIREZIONE GENERALE IN GENOVA
CAPITALE L. 1.200.000.000.

SERVIZI ELETTRICI

INDIRIZZI:
POSTA: CASELLA POSTALE TERNI
TELEGRAFO: ELETTROTERNI
TELEFONO: N. 58

C.R.C. ROMA 18651 - GENOVA 12090
MILANO 243198 - PERUGIA 12945
RIETI 6478 - TERAMO 20386
TERNI 4149
C/C/POSTALE GENOVA N.4/526

48

HEADQUARTERS ALLIED COMMISSION
PUBLIC WORKS AND UTILITIES
SUB COMMISSION
ELECTRICAL DIVISION

ROME

Vs.
Ns. 429 /Eserc.Centr.

PAPIGNO 17/ 2 /1945

RECEIVED
P.W. & U. S/C A.C.
21 FEB 1945 158

maj Borry
maj Renton

16

SUBJECT: Galleto and Cotilia station

With reference to your letter of 158 PWU of the 30 January ult.

So far as the rehabilitation of Cotilia station is concerned we have already answered to you with another letter and we reserve to complete the data according to the chart form as you desire when will get all the informations from the Steel-Works.

With reference to the putting into operation of Galleto Unit No.3, we are giving you the following elements:

1 - The parts of the turbine will be available at Papigno on the 1st of March.

2 - The assembly of the turbine and of the alternator and preliminary testing will last 40 days, unless something unexpected happens; so we estimate that the group will be ready to give energy on the 10th of April.

3 - The first 20.000 KVA Brown Boveri transformer 656 be ready for the 15th of March, and the second B.B. transformer for the 30th of March.

We enclose a chart form in which we indicate the schedule for

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

SUB COMMISSION
ELECTRICAL DIVISION

PAPIGNO 17/ 2 /1945

RECEIVED
P.W. & U.S/C.A.C.
21 FEB 1945 158

maj Borry
maj Renton

ROME

16

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3 - The first 20.000 KVA Brown Boveri transformer 656 be ready for the 15th of March, and the second B.B. transformer for the 30th of March.

We enclose a chart form in which we indicate the schedule for single workings.

TERNI
SOCIETÀ PER L'INDUSTRIA E L'ELETTRICITÀ

Vincere

No.1 All.
Ing.AT/AB

Il Foro competente per la decisione di qualunque controversia sui reattivi della nostra Società è quello di Genova.

TERNI - SOCIETÀ PER L'INDUSTRIA E L'ELETTRICITÀ
ANONIMA - SEDE LEGALE IN ROMA - DIREZIONE GENERALE IN GENOVA
CAPITALE L. 1.500.000.000

INDIRIZZI:
POSTA: CASELLA POSTALE - TERNI
TELEGRAFO: ELETTROTERNI
TELEFONO: N. 58

C.P.E. ROMA 18657 - GENOVA 12090
MILANO 243296 - PERUGIA 12945
RIETI 6478 - TERAMO 20386
TERNI 4149
C/C POSTALE GENOVA N. 4/526

SERVIZI ELETTRICI

QUARTIER GENERALE COMMISSIONE ALLEATA
SOTTOCOMMISSIONE LAVORI E SERVIZI
PUBBLICI - DIVISIONE ELETTRICA
R O M A
Via Vittorio Veneto

Vs. 489
Ns. /Eserc.Centr.
PAPIGNO, 16 Febbraio 1945

OGGETTO: Centrale Galleto e Cotilia

Ci riferiamo alla Vostra lettera 158 P.W.A. del 30 Gennaio ultimo scorso.

Per quanto si riferisce al ripristino della Centrale di Cotilia abbiamo già risposto con altra lettera e ci riserviamo di completare i dati nella forma particolare da Voi desiderata quando saremo in possesso di tutti gli elementi da parte dell'Acciaieria.

Per quanto riguarda la messa in servizio del Gruppo N. 6 Galleto, indichiamo i dati seguenti:

1) Le parti della turbina saranno disponibili a Papigno il 1° Marzo.
2) Il montaggio della turbina e dell'alternatore e le prove preliminari sul gruppo avranno la durata di 40 giorni, salvo imprevisti, per cui si ritiene che il gruppo sarà disponibile per dare energia il 10 Aprile.
3) Il 1° trasformatore Brown Boveri da 20.000 kVA. sarà pronto per il 15 Marzo e il 2° trasformatore B.B. per il 30 Marzo.

Accludiamo un diagramma in cui è graficamente indicato il tempo occorrente per le singole lavorazioni.

655

Il Foro competente per la decisione di qualunque controversia nei confronti della nostra Società è quello di Genova.

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

QUARTIER GENERALE COMMISSIONE ALLEATA
SOTTOCOMMISSIONE LAVORI E SERVIZI
PUBBLICI - DIVISIONE ELETTRICA

R O M A

Via Vittorio Veneto

Vs.
Ns. 489 /Esero.Centr.

PAPIGNO, 1o Febbraio 1945

OGGETTO: Centrale Galleto e Cotilia

Ci riferiamo alla Vostra lettera 158 P.W.A. del 30 Gennaio ultimo scorso.

Per quanto si riferisce al ripristino della Centrale di Cotilia abbiamo già risposto con altra lettera e ci riserviamo di completare i dati nella forma particolare da Voi desiderata quando saremo in possesso di tutti gli elementi da parte dell'Aeronautica.

Per quanto riguarda la messa in servizio del Gruppo N. 3 Galleto, indichiamo i dati seguenti:

1) Le parti della turbina saranno disponibili a Papigno il 1° Marzo.
2) Il montaggio della turbina e dell'alternatore e le prove preliminari sul gruppo avranno la durata di 40 giorni, salvo imprevisti, per cui si ritiene che il gruppo sarà disponibile per dare energia il 10 Aprile.
3) Il 1° trasformatore Brown Boveri da 20.000 kVA. sarà pronto per il 15 Marzo e il 2° trasformatore B.B. per il 30 Marzo.

Acciudiamo un diagramma in cui è graficamente indicato il tempo occorrente per le singole lavorazioni.

655

Allegati: n° 1

Prof.AMA/SL

TERNI
SOCIETÀ PER L'INDUSTRIA E L'ELETTRICITÀ

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

Il foro competente per la decisione di qualunque controversia nel confronti della nostra Società è quello di Genova.

TERNI - SOCIETÀ PER L'INDUSTRIA E L'ELETTRICITÀ

ANONIMA - SEDE LEGALE IN ROMA - DIREZIONE GENERALE IN GENOVA

CAPITALE L. 1.500.000.000

47

U.S.A.C.
21 FEB 1945 158
SERVIZI ELETTRICI

INDIRIZZI:
POSTA: CASELLA POSTALE - TERNI
TELEGRAFO: ELETTROTERNI
TELEFONO: N. 38

C.P.E. ROMA 18657 - GENOVA 13590
MILANO 243296 - PERUGIA 12945
RIETI 8478 - TERAMO 20388
TERNI 4140
C/C/ POSTALE GENOVA N. 4/536

HEADQUARTERS ALLIED COMMISSION
PUBLIC WORKS AND UTILITIES
SUB-COMMISSION ELECTRICAL DIVISION

R O M A

Via Vittorio Veneto

Vs.
Ns. 426 /Asero.Centr.

PAPIGNO, 1o Febbraio 1945

OGGETTO: Ripristino della Centrale di Cotilia

Con riferimento alla Vostra lettera 158 P.W.B. del 20/1/1945, siamo a fornirVi le informazioni disponibili fino a questo momento riguardanti il ripristino della Centrale di Cotilia.

Parte Civile - Le volte della Centrale è stata già riparata. Altri lavori civili sono in corso e saranno portati a compimento non oltre la metà di Marzo.

Parte Elettromeccanica - Sono in corso riparazioni su un gruppo da 30.000 kVA. costituito da una turbina, un alternatore ed una pompa. La pompa non ha subito avarie e deve essere solo montata. Per quanto si riferisce all'alternatore, il lavoro più lungo è quello relativo all'avvolgimento: tale lavoro si è iniziato in questi giorni e sarà terminato non oltre la fine di Maggio. Nello stesso termine potranno essere riparate le parti meccaniche dell'alternatore. Se particolari esigenze tecniche non contrasteno, alternatore e pompa potrebbero essere accoppiati ed essere pronti per sollevamento di acqua non oltre la fine di Giugno.
I lavori per la riparazione della turbina durerenno, 654 quanto è

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

[illegible] COMMISSION
PUBLIC WORKS AND UTILITIES
SUB-COMMISSION ELECTRICAL DIVISION

R O M A

Via Vittorio Veneto

Vs.
Ns. 426 /Eserc.Centr.

PAPIGNO, 16 Febbraio 1945

maj Barry
Renlan
maj 197, 1 Part

OGGETTO: Ripristino della Centrale di Cotilia

Con riferimento alla Vostra lettera 158 P.W.U. del 20/1/1945, siamo a fornirVi le informazioni disponibili fino a questo momento riguardanti il ripristino della Centrale di Cotilia.

Parte Civile - La volta della Centrale è stata già riparata. Altri lavori civili sono in corso e saranno portati a compimento non oltre la metà di Marzo.

Parte Elettromeccanica - Sono in corso riparazioni su un gruppo da 30.000 kVA. costituito da una turbina, un alternatore ed una pompa. La pompa non ha subito avarie e deve essere solo montata. Per quanto si riferisce all'alternatore, il lavoro più lungo è quello relativo all'avvolgimento: tale lavoro si è iniziato in questi giorni e sarà terminato non oltre la fine di Maggio. Nello stesso termine potranno essere riparate le parti meccaniche dell'alternatore. Se particolari esigenze tecniche non contrastano, alternatore e pompa potrebbero essere accoppiati ed essere pronti per sollevamento di acqua non oltre la fine di Giugno.
I lavori per la riparazione della turbina dureranno, 654 quanto è dato prevedere ora, 6 mesi, a partire dal momento in cui tutti i pezzi saranno disponibili presso lo Stabilimento Acciaieria. Per

Vincere

./.

Il Foro competente per la decisione di qualunque controversia nei confronti della nostra Società è quello di Genova.

il montaggio della turbina in Centrale si richiedono 40 giorni dopo che tutte le parti saranno disponibili sul posto.
La riparazione del trasformatore di Cotilia da 38.000 kVA. si inizierà in questi giorni e potrà essere compiuta entro il mese di Giugno.
Un programma molto dettagliato delle lavorazioni in corso è in preparazione all'Acciaieria e ve ne daremo comunicazione appena sarà pronto.
La linea a 150 kV. Cotilia-Villa Valle è in ordine e non richiede alcuna riparazione.

Centrale di Preci - Si ritiene che occorreranno 6 mesi di lavoro per la ricostruzione di un gruppo, a partire dal momento in cui tutte le parti saranno disponibili all'Acciaieria. In altra lettera, raccomandata all'attenzione del Magg. Price, indichiamo che i pezzi della Centrale di Preci saremmo pronti per il trasporto in Acciaieria il giorno 15 Marzo prossimo venturo.

TERNI
SOCIETÀ PER L'INDUSTRIA E L'ELETTRICITÀ

Prof.ANA/SL

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

TERNI - SOCIETÀ PER L'INDUSTRIA E L'ELETTRICITÀ
ANONIMA - SEDE LEGALE IN ROMA - DIREZIONE GENERALE IN GENOVA
CAPITALE L. 1.500.000.000

INDIRIZZI:
POSTA: CASELLA POSTALE - TERNI
TELEGRAFO: ELETTROTERNI
TELEFONO: N. 58

C.P.E. ROMA 18687 - GENOVA 12090
MILANO 242296 - PERUGIA 12945
RIETI 6478 - TERAMO 20386
TERNI 4040
C/C/ POSTALE GENOVA N. 4/526

SERVIZI ELETTRICI

HEADQUARTERS ALLIED COMMISSION
PUBLIC WORKS AND UTILITIES
SUB-COMMISSION
ELECTRICAL DIVISION

ROMA

Vs.
Ns. 426 /Eserc.Centr.

PAPIGNO, 17 Febbraio 1945

SUBJECT: Rehabilitation of Cotilia Generating Station

Reference your letter 158 PWU of the 20th of January we are sending you all informations available at this moment regarding the entire project of rehabilitation of Cotilia generating station.

CIVIL SECTION - The vault of the power house has been already repaired. Other civil works are going on and will be over not farther than the fifteenth of March.

ELECTRO-MECHANICAL SECTION - Repairs are going on with reference to one 30.000 KVA unit made up from a turbine, an alternator and a pump. The pump has suffered no damage and has only to be assembled. So far as the alternator is concerned the longest work is that concerning the windings; such work has been started in these days and it will be finished towards the end of May. In the same time we will repair the mechanical parts of the alternator.

If peculiar technical difficulties will not arise, the alternator and the pump might be joined together and be ready for lifting water toward the end of June.

The works for repairing the turbine will last, so far as we can foresee at this time, ~~six~~ months sterling from the moment in which all the parts will be available at the Steel-Work for the

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PUBLIC WORKS AND UTILITIES
SUB-COMMISSION
ELECTRICAL DIVISION

Ns. 426 /Eserc.Centr.

PAPIGNO, 17 Febbraio 1945

ROMA

SUBJECT: Rehabilitation of Cotilia Generating Station

Reference your letter 158 PWU of the 20th of January we are sending you all informations available at this moment regarding the entire project of rehabilitation of Cotilia generating station.

CIVIL SECTION - The vault of the power house has been already repaired. Other civil works are going on and will be over not farther than the fifteenth of March.

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If peculiar technical difficulties will not arise, the alternator and the pump might be joined together and be ready for lifting water toward the end of June.

The works for repairing the turbine will last, so far as we can foresee at this time, six months starling from the moment in which all the parts will be available at the Steel-Work 659 for the

./.

Vincent

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

Headquarters Allied Commission 426 /Eserc.Centr.

assembling of the turbine 40 days are required after all the parts are available on the spot. The repairs on the 38.000 KVA transformer of Cotilia will be started in these days and will be completed towards the end of June.

A more detailed program of the works is in preparation at the Steel-Works: we will send it to you as soon as it will be ready.

The 150 kV transmission line from Cotilia to Villa Valle is in order and there is no need of repairs.

PRECI STATION - It is estimated that 6 months will be required for the reconstruction of one group from the moment in which all the parts will be available at the Steel-Works. In another letter sent to you for the attention of Maj Price we indicate that the pieces in Preci station will be ready for the 15th of March.

TERNI
SOCIETÀ PER L'INDUSTRIA E L'ELETTRICITÀ

PROF.AMA/SL

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

A more detailed program of the works is in preparation at the Steel-Works: we will send it to you as soon as it will be ready.

The 150 kV transmission line from Cotilia to Villa Valle is in order and there is no need of repairs.

PRECI STATION - It is estimated that 6 months will be required for the reconstruction of one group from the moment in which all the parts will be available at the Steel-Works. In another letter sent to you for the attention of Maj Price we indicate that the pieces in Preci station will be ready for the 15th of March.

TERNI
SOCIETÀ PER L'INDUSTRIA E L'ELETTRICITÀ

PROT.AMM/SL

652

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

DW A.G.
20 FEB 945 158

ENGINEER SECTION (BR)
A.F.H.Q.
C.M.F.
Tele. No. Freedom 818

46

SUBJECT :- Electric Plant Rehabilitation Report. ENG/2002.

TO :- Allied Commission, 19 Feb 45.
Public Works & Utilities Sub-Commission.

1. My the following please be added to the distribution list of Monthly Progress Reports on the Restoration of Italian Electrical Plant and Transmission System.

(a) D.W., A.F.H.Q.

(b) C.E., 15 Army Group.

50 Rpo

R.H. ROOKSBY,
Major RE,
for Brigadier,
D.W.

651

Central Apennines Hydraulic Pressures) Central Italy
(Forze Idrauliche Appennino Centrale)

Via Pretese - Pistoia (File 158) File see me. [illegible]

Following form must be completed in order to supply further informations, after the report on Availability has been filled.

1) The workshop is not occupied by allies but is working for them.

2) List of Plants and machinery.

a) Pistoia receiving substation for the distribution of electric energy to Pistoia area.

Nº 1 three-phase oil cooled transformer (30/5,2 KV 2000 KVA)

~~~ Equipment for the operation and control of the transformer.

b) S. Marcello Pistoiese substation for the distribution of electric energy to S. Marcello Pistoiese area.

Nº 1 three-phase - oil cooled transformer (30/6,5 KV - 1000 KVA)

~~~ Equipment for the operation and control of the transformer

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

the workshop is not steeped by other but is working for them.

2) List of Plants and machinery.

a) Portova receiving substation for the distribution of electric energy to Portova area.

N° 1 three-phase oil cooled transformer (30/5,2 KV 2000 KVA)

~~~ Equipment for the operation and control of the Transformer.

b) S. Marcello Pontano substation for the distribution of electric energy to S. Marcello Pontano area.

n° 1 three-phase - oil cooled transformer (30/6,5 KV - 650 1000 KVA)

~~~ Equipment for the operation and control of the transformer

3) Existing materials and spare parts

Type Amount

All three stations owned by the Company in the high Valley of Imera river have been damaged.

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

Form ACC/EL/1

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

ESTIMATE OF EXPENDITURE IN CONNECTION WITH WAR DAMAGE REPAIR TO ELECTRICAL GENERATING PLANT AND EQUIPMENT WHICH IS USED IN THE PUBLIC UTILITY SERVICE.

ESTIMATE

1. Name of Company

2. Name of Project

3. Location of Project

4. Estimated Cost

(a)	Civil Eng Work	L_____
(b)	Plant and Machinery	L_____
(c)	Electrical Equipment	L_____
(d)	Transmission Lines	L_____
(e)	Sub Stations	L_____
		L_____
TOTAL ESTIMATED EXPENDITURE		L_____

Remarks

Signed _____ Position _____

Signed _____ Position _____

For ACC USE Number of Project _____

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

1. Name of Company

2. Name of Project

3. Location of Project

4. Estimated Cost

(a)	Civil Eng Work	L
(b)	Plant and Machinery	L
(c)	Electrical Equipment	L
(d)	Transmission Lines	L
(e)	Sub Stations	L
		L
	TOTAL ESTIMATED EXPENDITURE	L

Remarks

Signed _____ Position _____

Signed _____ Position _____

For ACC use

Number of Project _____

Approved by _____ Chief Util. & Adm. Div. FWSU, S-C, ACC.

Approved by _____ Director FWSU, S-C, ACC.

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

following plants are at disposal.

1) Small hydroelettric ~~plan~~ station at PITECCIO
(installed capacity 7.5 KVA)

2) Small plant at Bagnian (owned by CIMI Paper mill)
and requisitioned by A.M.G to supply
Pistoia and S. Marcello areas.
Installed capacity 1200 KW
Average production 700 KW

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

Form ACC/EL/1

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

ESTIMATE OF EXPENDITURE IN CONNECTION WITH WAR DAMAGE REPAIR TO ELECTRICAL GENERATING PLANT AND EQUIPMENT WHICH IS USED IN THE PUBLIC UTILITY SERVICE.

ESTIMATE

1. Name of Company

2. Name of Project

3. Location of Project

4. Estimated Cost

(a)	Civil Eng Work	£
(b)	Plant and Machinery	£
(c)	Electrical Equipment	£
(d)	Transmission Lines	£
(e)	Sub Stations	£
		£
TOTAL ESTIMATED EXPENDITURE		£

Remarks

Signed _____ Position _____

Signed _____ Position _____

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

1. Name of Company

2. Name of Project

3. Location of Project

4. Estimated Cost

(a)	Civil Eng Work	£
(b)	Plant and Machinery	£
(c)	Electrical Equipment	£
(d)	Transmission Lines	£
(e)	Sub Stations	£
		£
TOTAL ESTIMATED EXPENDITURE		£

Remarks

Signed _____ Position _____

Signed _____ Position _____

For ACC USE

Number of Project _____

Approved by _____ Chief Util. & Adm. Div. FW&U, S-C, ACC.

Approved by _____ Director FW&U, S-C, ACC.

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

note attached para 15 c) d) 3

Total Repairs | Partial Repairs

SESTRIONE Hydroelectric Station (Porrino 3rd Fall)

The first section of penstocks should be rebuilt substituting the sheet iron conduit blown up by German mines. Also the station building should be rebuilt ~~and~~ as well as 2 turbogenerator units (1680 HP) and the generator of a 4150 HP unit.

Temporary repairs (by means of cement conduit) of penstocks. Construction and assembly on the spot of a shed (using timber) in order to rehabilitate one 1680 HP turbo generator, previously taken out and hidden.

Various repairs on machinery.

Riofreddo Plant

The building should be totally rebuilt and 3 ~~turbo~~ turbogenerator units (total 300 HP) substituted

Partial repairs impossible

LIVOENI Plant

The building should be totally repaired and 2 turbogenerator units (total 260 HP)

Partial repairs impossible

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

Also the station building should be rebuilt as well as 2 turbogenerator units (1620 HP) and the generator of a 4150 HP unit.

Various repairs on machinery.

Ruffredo Plant

The building should be totally rebuilt and 3 turbogenerator units (total 300 HP) substituted

Livigni Plant

The building should be totally repaired and 2 turbogenerator units (total 260 HP) substituted.

Piteglio

Repairs on the building and various others.

distribution and assembly on the spot of a shed (using timber) in order to rehabilitate one 1600 HP turbo generator, previously taken out and hidden.

Partial repairs impossible

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Partial repairs impossible

Total Repairs	Partial Repairs

Sestaione Substation

2 30 KV - 1775 KVA transformers and 1 60 KV - 3550 KVA should be rebuilt. Also some iron frames, switches, air breakers, and switchgears ~~and~~ should be repaired. The building for medium voltage equipment (6.5 KV) needs partial rebuilding. Shortage of insulating oil.	Arrangements through emergency means of ~~the~~ machinery in good conditions, required for ~~to~~ in order to put into service two ~~both~~ 30 & 60 KV transformer, previously taken out and hidden.

S. MARCELLO Substation

Various Repairs on the building. Total reconstruction of one 1000 KVA transformer. Most of indoor equipment (oil ~~[illegible]~~ and air breakers a.s.o) should also be rebuilt.	Arrangement through ~~with~~ emergency ~~[illegible]~~ means of temporary equipment in order to put into operation one 1000 KVA transformer, previously taken out and hidden.

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

Also some iron frames, switches, air breakers, and switchgears ~~and~~ should be repaired

The building for medium voltage equipment (6.5 KV) needs partial rebuilding.

Shortage of insulating oil.

for ~~to~~ in order to put into service two ~~both~~ 30 & 60 KV transformer, previously taken out and hidden.

S. MARCELLO Substation

Various Repairs on the building

Total reconstruction of one 1000 KVA transformer.

Most of indoor equipment (oil ~~[illegible]~~ and air breakers a.s.o) should also be rebuilt

Arrangement ~~with~~ through emergency ~~[illegible]~~ means of temporary equipment in order to put into operation one 1000 KVA transformer, previously taken out and hidden.

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Via di Gora Substation

Various repairs on the building

One 3000 KVA - 60 KV transformer should be repaired as well as equipment -

Oil for transformer is also needed.

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Total Repairs	Partial Repairs
Viale Pacinotti Substation	
Total reconstruction of building and of equipment, owing to total destruction following bombardment	Partial repairs impossible
Via Prati Substation	
The winding of one 5000 KVA 60 KV transformer needs repairs.	
30 & 60 KV Transmission lines	
Some towers and suspension insulators should be replaced. Steel-Aluminum conductors need stretching. Special metal fittings couplings are also needed.	Temporary arrangement of demolished towers. Setting of line actions through mined areas.
Medium and Low-voltage network	
Reconstruction of demolished cabins and shelters of the	Temporary arrangement

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

Via Pratese Substation

The winding of one 5000 KVA 60 KV transformers needs repairs.

30 & 60 KV Transmission lines

Some towers and ~~[illegible]~~ suspension insulators should be replaced.

Steel-Aluminium conductors need stretching.

Special metal ~~[illegible]~~ couplings ~~should~~ are also needed.

Temporary arrangement of demolished towers

Settling of line sections through mined areas.

Medium and low-voltage network

Reconstruction of demolished cabins and repairs of ~~[illegible]~~ damaged ones are needed.

Medium and low voltage line as well as electric lighting system needs repairs.

Particular care is required for Pistoia network totally destroyed.

Temporary arrangement of medium voltage lines, cabins and low voltage network.

Temporary arrangement of public lighting impossible.

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

Tel.489081
Ext. (317

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

WHL/a

File 158

Reference 051/PWU
Subject : Electrical Power

14 Feb. 45

To : REGIONAL COMMISSIONER SICILY REGION
REGIONAL COMMISSIONER SARDINIA REGION

1) - With reference to the electrical power situation throughout liberated Italy, Sicily and Sardinia and the rehabilitation work which is being carried out, it has now been decided to form a number of committees whose members will be closely in touch with the situation and thereby provide means for the Ministry of Public Works and the Allied Commission being kept fully informed on all matters in connection with electric power supplies.

2) - Arrangements have therefore been made for committees to be known as Advisory Committees on Electric Power to be formed for each of the following Areas :

Central Italy
Southern Italy
Sicily
Sardinia

and already the Advisory Committees for Central and Southern Italy have been put into operation.

3) - These Advisory Committees will meet monthly, their purpose being to recommend and advise the General Inspector of Electricity, Water and Gas of the Ministry of Public Works on all matters pertaining to electric power within their respective Areas.

4) - We are anxious that all Committees shall commence to function at an early date and Eng.VISENTINI, General Inspector of Electricity, Water and Gas, Eng. A.ASTA of the Ministry of Public Works and myself together with Eng.F.BARLUZZI of my staff (acting Secretary in the initial stage) will be visiting Sardinia about the 21st and Sicily about the 28th of February 1945, for the purpose of making the necessary arrangements with the officials of the electrical companies and other interested parties who may be considered suitable to serve on these Committees.

049

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5) - A copy of this letter is being sent to the High Commissioner from the Ministry of Public Works and I hope on my arrival to call and see you and to give further explanations regarding the functions of the Commitee on electric power.

6) - Will you please be good enough to reserve accommodations for me, and for the three Italian civilians for the dates above mentioned which may be subject to slight variation due to plane reservation.

By command of Rear Admiral STONE,

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

cc. 158

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

FILE

Tel.489081
Ext. 317

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

WEU/ac

43

Reference : 138/PWU

13 February 1945

Subject : Advisory Committee on electric power (Central Italy) - emergency operation

To : S.R.E. - (Attn Eng. A.Revelli) - Via Poli, 14
A.C.E.A. (Attn Eng.G.Angelucci) - Via Milano,62
TERNI (Attn Eng.A.Angelini) - Via Due Macelli,66
UNES (Attn Eng.C.Pascetti) - Via Torino,117
VALDARNO (Attn Eng.G.Landucci) - Via De'Cerretani,8

1) - With reference to the Agenda for the second meeting of the Advisory Committee on Electric Power (Central Italy) I would draw your attention to item 3 of the Agenda referring to emergency operation.

2) - It is intended under this item to discuss operation memorandum N° 2 which deals with the procedure to be adopted in case of emergency.

3) - I shall be glad if you will come to the meeting prepared with information regarding the switches which should be opened in case of an emergency arising. That is the switches which should be marked with a RED LABEL and those which should be marked with a GREEN LABEL. For your guidance the opening of the RED switches should cut off about 10% of the load, a further 10% being cut off when the GREEN switches are opened.

4) - In considering the switches to open in the emergency care should be taken to prevent interruption to high priority circuits.

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

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

INCOMING MESSAGE

HEADQUARTERS ALLIED COMMISSION

Originator's Reference: FX 25867
Date Time of Origin: FEB 130913

Message Centre No: D/1696
Date Time Recd: FEB 131110
Precedence: PRIORITY

FROM: AFHQ SIGNED SACMED CITE FREMO

TO: DISTONE INFO 170 CE (WORKS), HQ AC ELECT DIVISION

RECEIVED
P.W. & U.S/C.A.C.
13 FEB 1945 158

RESTRICTED

INFO - ACTION

RESTRICTED.

Stop work on 120 KV transmission line PONTICINO to RICCIONE. RSCCE report shows 75 pylons damaged

HEADQUARTERS
13 FEB 1945
A.

DIST

INFO-ACTION PUBLIC WORKS & U
INFO A/PRESIDENT
CHIEF COMMISSIONER
ECON
COMMUNICATIONS
FILE & FLOW (3)

RESTRICTED

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

VSRenton/rem

13 February 1945

SUBJECT: Additional Facilities in Operation, Rome Area

TO : Lt. Col. Lapper

1. Within the past two days the electric facilities listed below have resumed operation in the Rome Area.

(a) 1 5,000 KVA syncronous condensor at the Tor di Quinto sub-station in North Rome. Operation of this machine will permit better voltage regulation in Rome.

(b) 1 60 KV transmission line between Castel Madama and Acquoria. This line will serve as a spare connection between Subiaco and Acquoria. As a result the grid supply from the stations of the Subiaco group will be more reliable.

(c) The 1,500 KW generator at Selvyna started operating under a light load. The Governor is still not in good condition. Our operation of this unit will improve the voltage in the area north of Rome as well as supply additional power to the grid.

2. It is suggested that a copy of this memorandum be utilized in preparing the situation report for this week.

V. S. RENTON

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

R. 38

Tel. 489081 Ext. 317

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

VER/ram

158/PWU

12 February 1945

SUBJECT: Rehabilitation of Electrical Facilities - Terni-Orte Area

TO : Director General Military Railway Service
Transportation Increment C.M.F. - Att'n:
Major Frank Kubale

1. Confirming conversation between Major Frank Kubale and Major Vinal S. Renton of this headquarters it is recommended that the rehabilitation of the two 150 KV transmission lines between Terni and Orte and one auto-transformer at Orte be started immediately. The purpose of this work is to make power available at 120 KV at the Villa Valle Substation for transmission to Florence and to Giuncano for railway purposes.

2. In accordance with the agreement between Majors Kubale and Renton there is transmitted herewith one copy each of two field reports prepared by Major Vallero of this headquarters in connection with an inspection of the Orte-Switching Station and the Orte-Terni transmission lines.

W. M. LAPPER,
Lieut.-Colonel,
Chief, Elec. Div.

Enclosures (2)
Field Reports

640

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

Larderello Plant

+36

Col. Densmore -
After many sad experiences the Electrical Reconstruction and Rehabilitation problem was taken away from the Regional direction and returned to this headquarters. It has long been agreed and AFHQ directives so indicate that the Electrical Reconstruction and Rehabilitation must be handled by one central authority and we have been designated as that authority. It is a national and not a Regional matter.

Things are going quite well at Larderello if left alone. Major Bell has the work well in hand and is a capable officer. The Regions understand that we must treat this as a national and not a Regional problem.

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

19/2/45

file
158

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

COMUNALE
AZIENDA GO~~VERNATORIALE~~
ELETTRICITÀ ED ACQUE

Prot. N. 1208
(da citare nella Risposta)

RECEIVED
P.W. & U. S/C A.C.
15 FEB 1945 158

Indirizzo telegrafico: AGEA - Roma
Telefoni dello Stato: 43.543 - 43.544
Conto Corrente Postale: 1/2902

35

10 FEB 1945

ROMA, (103) VIA MILANO, 62 Anno XX

HEADQUARTERS ALLIED COMMISSION
Public Works and Utilities Sub-Commission

APO 394

Ho ricevuto l'estratto del verbale della 1^ riunione del Comitato Consultivo per l'energia elettrica (Italia Centrale) sull'argomento "Stipendio del Direttore e del Personale dell'Ufficio Centrale di Controllo".

Non ho nulla da eccepire.

Distinti saluti.

Il Direttore

Ing. Giuseppe Angelucci

Lt Col Rapper
15/2
he agrees

638

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

Tel. 489081 Ext. 320

34

HEADQUARTERS ALLIED COMMISSION
APO 394
ECONOMIC SECTION

LAJ/ram

14 February 1945

SUBJECT: Appointment of Commisario for Larderello

TO : Minister of Transports

13 15

1. Your communications of 16 and 26 January and 10 February have been received and the matter has been investigated.

2. We understand that Prince Ginori, whose family originally was in control of the Larderello Plants, has been endeavoring to appoint someone representing his family to obtain control of the property. On the other hand we understand, from your communications, that the Italian State Railways have a vital, if not controlling interest, in this property and for that reason you are desirous of having a Commisario appointed to represent the Italian State interests in that property.

3. In view of the fact that Engineer Vergili of the Italian State Railways has been appointed by us as the Italian engineer in charge of the actual rehabilitation of the electrical plants at Larderello, working directly under the supervision of the Public Works and Utilities Sub-Commission of A. C., we believe that the State interests are amply protected at this time.

4. We also wish to point out that the expeditious rehabilitation of this plant is of extreme military importance and that we can not do any thing that might jeopardize progress in this respect. At the present time good progress is being made by your engineer under Major R. A. Bell of the Public Works and Utilities Sub-Commission and we believe that this relation should not be disturbed for the time being.

5. We also wish to point out that we feel that we might again have labor difficulties if a change in the present organization were made, a condition which we are very anxious to avoid.

637

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

6. In view of the above we do not desire to have a Commissario appointed by you at this time.

1DD.

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

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

21/2/43

Maj Rassam

This probably should be checked with Embassy - Tokyo Reg. first as it is apparently the result of wireless that has been initiated by them.

SHH

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

Legal	Aid Grant
Education	Navy
Monuments & Fine Arts	Land Forces (SHAEF)
Economic Section	Air
Requisition Division	Communications
Agriculture	Civil Censorship Group
Commerce	G.H.Q. & F.O.4.
Finance	Public Relations Branch
Property Control Div.	Information Division
Food	Archivist
Industry	U.N.R.R.A.
Mining Division	I.G.C.R.
Labor	
Public Works & Utilities	
Shipping	
Transportation	
Political Section	

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

HEADQUARTERS
TOSCANA REGION
ALLIED MILITARY GOVERNMENT

33

File Ref: RVIII/100/ III

Date: 6 Feb. 45.

SUBJECT: Operation of the LARDERELLO Electrical and Chemical Plant.

TO : Deputy Chief of Staff, Economic Section, HQ. AC.

1. I appreciate HQ. AC keeping me informed of developments in the LARDERELLO plant in as much as it is quite probable that the plant will revert to Region control at a later date. However, at this time I consider that I have no responsibility whatever for the operation of the LARDERELLO plant. AC has put in a Public Works officer, Major R.A.BELL, to take charge of the plant. I was not consulted in his appointment and he is not subject to my orders. I have, therefore, assumed that AC.HQ desires to keep the LARDERELLO plant under the immediate control of that HQ.

2. Since you have asked for my recommendations I submit that so long as the plant is in AMG territory; and so long as the Allied authorities, military and AMG, consider it necessary to control the output of the plant as well as the operations connected with its reconstruction, it is inadvisable to permit the Italian Government to appoint anyone to control the plant. It might be expedient for HQ. AC to appoint an Italian nominated by the Italian Government to manage the plant under the direction of the Allied Commission provided the Allied Commission is thoroughly satisfied with the Italian nominated and provided, further, that it is definitely understood that the Italian nominated to manage the property takes his directions from the representative of the Allied Commission rather than from the Italian Government.

3. That is to say any Italian civilian appointed at this time should be an appointee of the Allied Commission rather than of the Italian Government although he might well be recommended by the Italian Government in order to effect the eventual turn-over more smoothly. To permit the Italian Government to exercise authority in the LARDERELLO plant at this time would, in my opinion, only add unnecessary complications in an already complicated situation. If AC is going to run the plant, AC must retain control.

ROBT. G. KIRKWOOD,
Colonel, FA, US Army
Regional Commissioner.

RGK/ttg.

635

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

MINISTERO DEI TRASPORTI
GABINETTO

MINISTERO DEI LAVORI PUBBLICI
13245
GABINETTO

Roma, 10 FEB 1945 32

N. 2196-UL/136-B.

Segue a n. 1660/UL/136-B
del 27 gennaio 1945

OGGETTO: Società Anonima Larderello.

ALLA COMMISSIONE ALLEATA
Sottocommissione dei Lavori Pubblici
Apo 394

R O M A

Questo Ministero premura l'evasione della nota che si unisce in copia.

IL MINISTRO
(Francesco Cerabona)

All.1

634

MINISTERO DEI TRASPORTI

320

Ref. to N° 1660/UL/136 -B of the 27th of Jan. 1945.
Object: SOCIETA' ANONIMA LARDARELLO

To the ALLIED COMMISSION
PUBLIC LABOR SUB-COMMISSION

This Ministry kindly for eager attention to the note herewith included in copy.

THE MINISTER
(Francesco Merlabona)

633

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

32B

Roma, 27 gennaio 1945

UL/ 136-B-1660
Segue a nota 16-1-1945
n.UL/136-B-893

Società Anonima Larderello.

ALLA COMMISSIONE ALLEATA
Sottocommissione dei Lavori Pubblici
e P.C.
ALLA PRESIDENZA DEL CONSIGLIO DEI MINISTRI
R O M A

Con decreto legislativo luogotenenziale 19 ottobre 1944, n.420, pubblicato nella Gazzetta Ufficiale del Regno il 18 gennaio corrente, sono state emanate le norme relative alla nomina di commissari governativi alle società concessionarie di pubblici servizi o di beni di pertinenza dello Stato o che fruiscano di finanziamenti o partecipazioni o garehzie da parte dello Stato.

In base all'art.10 di detto decreto la nomina del Commissario per la gestione della Società in oggetto è di competenza di questo Ministero.

Pertanto, in modifica di quanto si è richiesto con la nota su indicata, si prega codesta Commissione di far conoscere se nulla osta alla nomina dell'Ing.Marino Dalla Torre a commissario della società stessa. 632

IL MINISTRO
F.to Cerabona

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

Società Anonima Larderello.

ALLA COMMISSIONE ALLEATA
Sottocommissione dei Lavori Pubblici
e P.C.
ALLA PRESIDENZA DEL CONSIGLIO DEI MINISTRI
R O M A

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IL MINISTRO
F.to Cerabona

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

320

Rome, 26 th of Jan. 1945

UL/136-B-1660

Ref.to note 16-1-1945
n.UL/156-B-893

Società Anonima Lardarello.

TO/ ALLIED COMMISSION
SUB-COMMISSION OF PUBBLIC WORKS

TO/ PRESIDENZA DEL CONSIGLIO DEI MINISTRI

R O M E

With the Decree D.L.L. of the 19 of OCT. 1944 n.420, publishid in the "Gazzetta Ufficiale del Regno" the 18 th of Jan. 1945, it is stabilized the appointment of the Commisari Governativi to the Firm granting public services or of State property or that profit from financial participations or warranty from the State.

As art.10 of the above Decree the appointment of the Commissari for the management of the Firm in object, it is of competence of thi Ministry.

Hower modifying to what is requested above, we beg your Commission to let us know if there are any objections to the appointment of Ing.MARINO DELLA TORRE to Commissario of the abtve Firm.

THE MINISTER
F.to Cerabona

631

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

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

G.de CSP/gb
(3541)

31

HEADQUARTERS
ALLIED MILITARY GOVERNMENT
LAZIO UMBRIA REGION
(Engineering Division)
APO 394

RECEIVED
P.W. & U. BRANCH
14 FEB 1945 158

13 February 1945

TO : HQ. A.C. Industry Sub-Commission

SUBJECT : Procedure on Electric Power

IF REPLY QUOTE : E4/ENG/700

Your PS/4.03 dated 31 Jan. was received by me 7th Feb. and quite impossible to deal with by 10th Feb.

A list of the larger consumers will be ready by 17th Feb. and be handed to Regional Industry in duplicate as any question of justification is their affair.

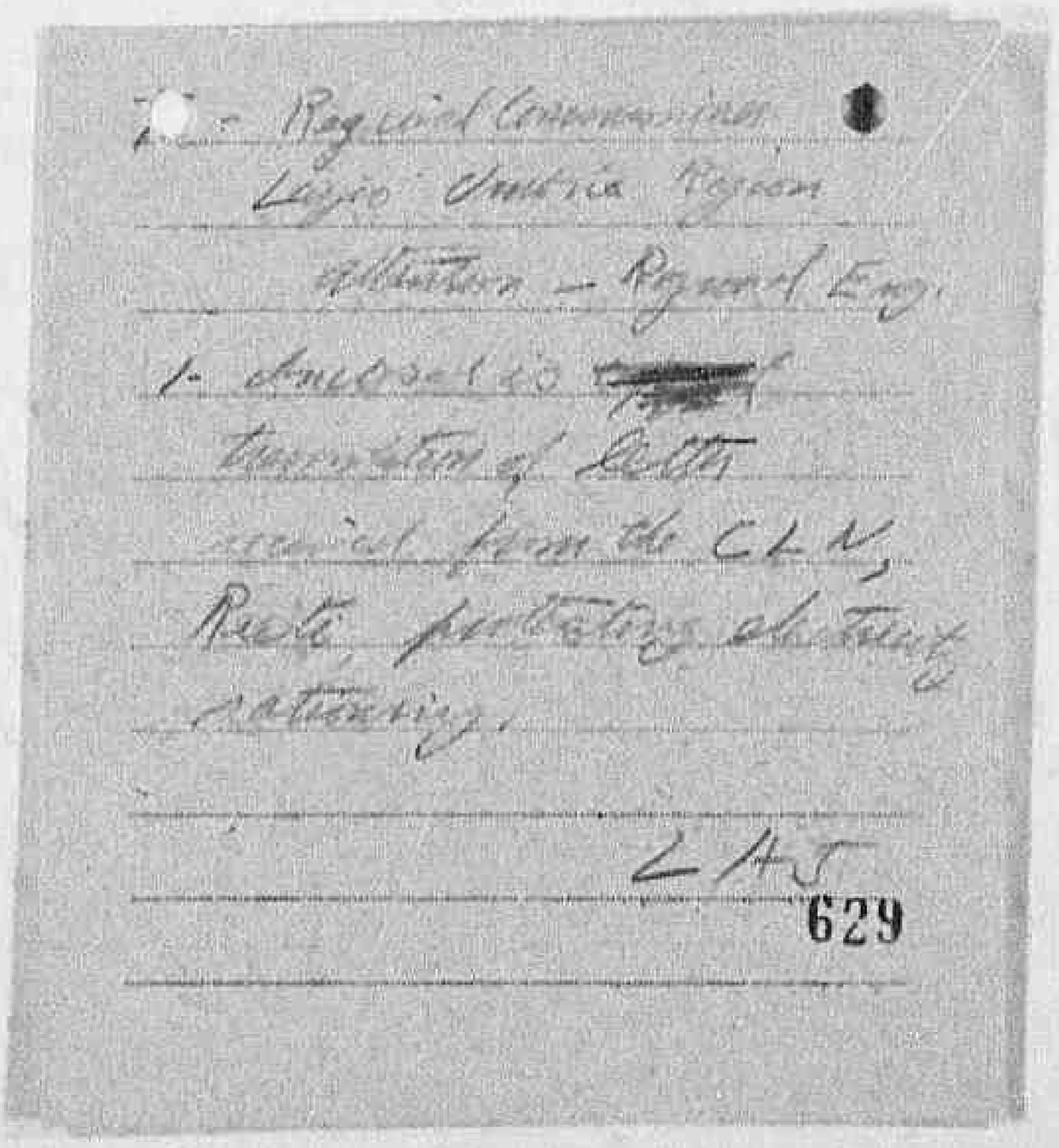
Many of the smaller loads such as small workshops will not be included as these records are kept locally and would have to be obtained from local Power Distributing offices. -

Lt.Col.R.E.
Regional Engineer
Lazio Umbria Region AMG.

630

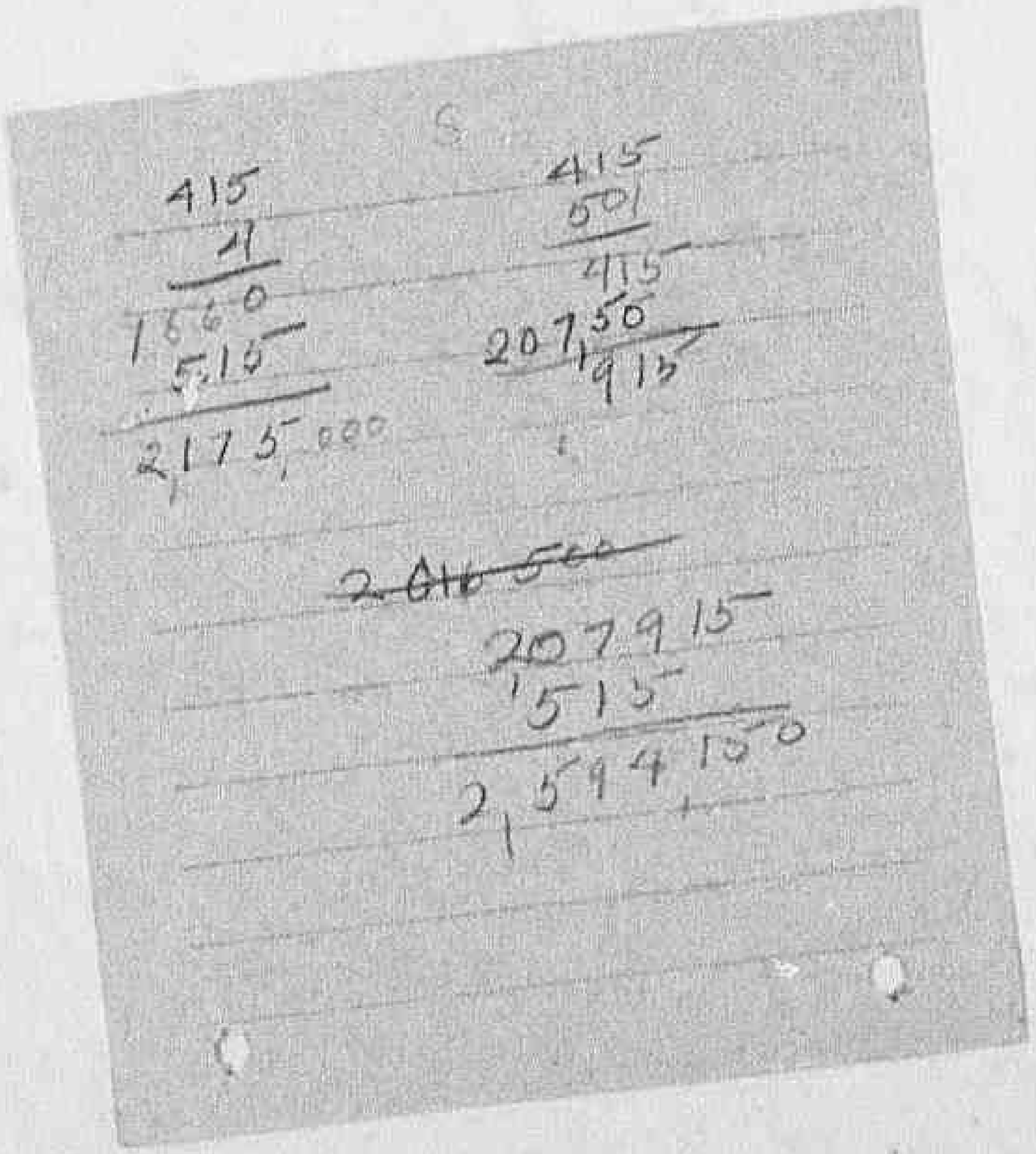
Copy to:
Region L & U Industry Division
E & M Section
A.C. P.W.(U).

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



629

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



P.W. & U.

30

COMITATO LIBERAZIONE NAZIONALE

RIETI

REC'D
P.W. & U. SIC. AC
12 FEB 1945 158

Rieti, 2 Febbraio 1945

A S.E. IL PREFETTO DELLA PROVINCIA DI = RIETI =

e.p.c. ALLA COMMISSIONE ALLEATA = ROMA = Lt Col Rapper

AL COMITATO CENTRALE DI LIBERAZIONE NAZIONALE = ROMA = Pls translate & revise and prepare a draft of reply for my sig. note who is writing the letter.

A S.E. IL MINISTRO DELL'INTERNO = ROMA =

A S.E. IL MINISTRO DEI LL.PP. = ROMA =

AL COMUNE DI = RIETI =

AI COMUNI CAPOLUOGO DI MANDAMENTO DELLA SABINA = RIETI =

translation attached

Maj Rosson
HGR
Copy of translation
Fred. to Lazio
Umbria Region
21/2

Per incarico del Comitato Provinciale di Liberazione Nazionale mi pregio comunicare alla S.V. il seguente ordine del giorno deliberato dal Comitato stesso nella seduta del 31 Gennaio 1945 relativo al razionamento della energia elettrica.

Il Comitato Provinciale di Liberazione Nazionale.

Visto il manifesto della Prefettura di Rieti in data 24 Gennaio 1945 col quale si rende noto alla popolazione l'avvenuto razionamento della energia elettrica, razionamento che per quanto riguarda l'energia di illuminazione pubblica e privata può così riassumersi:

a) la pubblica illuminazione ridotta ora a n.31 centri luminosi da 40 watt. viene completamente soppressa al 1 Febbraio;

b) a ciascuna utenza viene assegnata una quantità di energia pari a kw.8 mensili;

c) che tale energia può essere usata solo 4 giogni la settimana stabiliti nella ripartizione della Città in zone;

Constatato che nè il Comune di Rieti, nè i principali Comuni della Sabina sono stati affatto interpellati sulla questione pur essendo essi i maggiori organi interessati e meglio edotti delle sottigliezze e dei soprusi praticati dalle Società fornitrici di energia elettrica contro i loro amministrati;

Constatato che ad una simile restrizione si è giunti proprio ora che la

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

AL COMITATO CENTRALE DI LIBERAZIONE NAZIONALE = ROMA =
A S.E. IL MINISTRO DELL'INTERNO = ROMA =
A S.E. IL MINISTRO DEI LL.PP. = ROMA =
AL COMUNE DI = RIETI =
AI COMUNI CAPOLUOGO DI MANDAMENTO DELLA SABINA = RIETI =

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a) la pubblica illuminazione ridotta ora a n.31 centri luminosi da 40 watt.viene completamente soppressa al 1 Febbraio;

b) a ciascuna utenza viene assegnata una quantità di energia pari a kw.6 mensili;

c) che tale energia può essere usata solo 4 giorni la settimana stabiliti nella ripartizione della Citta in zone;

Constatato che ne il Comune di Rieti,ne i principali Comuni della Sabina sono stati affatto interpellati sulla questione pur essendo essi i maggiori organi interessati e meglio edotti delle sottigliezze e dei soprusi praticati dalle Societa fornitrici di energia elettrica contro i loro amministrati;

Constatato che ad una simile restrizione si e giunti proprio ora che la Centrale di Galleto e in buona efficienza mentre a cio non si giunse nemmeno quando funzionava solo la piccola centrale di Canetra o la termoelettrica della Cisa Viscosa.

././././.

628

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

Rilevato dalla procedura tenuta verso gli organi più interessati e competenti che si usano ancora i metodi fascisti e che i procedimenti democratici sono annullati dal peso che ancora oggi le Società accentratrici dei beni prodotti dal lavoro esercitano sugli organi dello Stato;
Rilevato ancora che i Comuni della Sabina non sono stati nemmeno parificati nei riguardi del quantitativo di energia agli altri Comuni e che per quanto riguarda del quantitativo di energia una limitazione così impossibile può far dubitare che per le tariffe relativamente basse di cui essa gode per contratto, l'Unes abbia interesse di vendere altrove l'energia pur avendo la predetta Società aumentato senza preavviso alcuno fin dal 10 Ottobre 1944 ed in ispregio al R.D.L. 12 Marzo 1941 n.142 le tariffe praticate;
Rilevato che nessun fatto nuovo può giustificare una così grave quanto infelice determinazione.

DELIBERA

Di invitare S.E. il Prefetto della Provincia di Rieti

1) a riesaminare ab initio la questione insieme ad una Commissione nominata da questo Comitato;

2) a provvedere con immediato ordine alla Unes perchè il consumo sia portato per adesso a Kw.10 per utenza e che la distribuzione della energia sia continua onde evitare la borsa nera per acquisto di altri mezzi di illuminazione;

3) a far ripristinare subito la attuale pubblica illuminazione onde evitare prevedibili anzi certissimi inconvenienti di ogni specie.

IL PRESIDENTE DEL COMITATO
(Dott. Ing. Armando Biasi)

Comitato Prov. di Liberazione Nazionale - Rieti - Segreteria Particolare

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

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

(Translation)

COMITATO LIBERAZIONE NAZIONALE

R I E T I

Rieti 2nd of Feb. 1945

TO : H.E. The Prefect of Rieti Province

Att: Allied Commission - Roma -
Central Committee of National Liberation - Rome -
H.E. The Minister of Interio - Rome -
H.E. The Minister of Public Works - Rome -
Rieti Commune - Rieti
Mandamento della Sabina Commune - Rieti -

On the part of the Provincial Committee of National Liberation, I beg to inform you about the following order of the day regarding the rationing of the electric energy, issued by the Committee itself in the sitting on 31st January 45.

The Provincial Committee of National Liberation:
Having seen the advertisement of Rieti Prefecture dated 24th January 45, informing the population about the electric energy rationing, which, as regards the energy for public and private lightning, can be summarized as follows:-

a) Public lighting reduced to no. 31 lighting centres, has been totally curtailed since 1st February.

b) Every consumer has been allowed 8 KW per month.

c) Such energy can be used only 4 days a week, according to the assessment of the city by zones;

Considering that neither Rieti Commune, nor the principal Communes of Sabina have been consulted on the matter, although they are the most important Bodies interested, and the best acquainted with the subtleties and abuse of power exerted by the Electric Companies against their consumers;

Considering that such rationing has been introduced just now when Galleto Station is in operation, whilst it was not been introduced when only the small Canetra Plant or Cisa Viscosa thermo-electric plant were in operation.

607

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

Remarking that, according to the procedure followed towards the most interested and competent Bodies, Fascist methods are still adopted whilst democratic procedures are hindered by the influence still exerted by the Companies, centralizing the wealth produced by labour, on the Ministerial Bodies;

Remarking that the Communes of Sabina have not even been equalized to the other Communes as regards the allocation of energy, and that such impossible allocation makes one believe that Unes Co., owing to the rates comparatively low which it enjoys by contract, is interested in selling energy elsewhere, though this Company has increased the rates since 10th October, without any previous notification and in defiance of R.D.L. 12th March 1941 no. 142;

Considering that any new fact can justify such a serious and awkward resolution.

RESOLVES

upon asking H.E. the Prefect of Rieti Province.

1) to re-examine ab - initio the matter together with a Commission appointed by this Committee.

2) to issue an immediate order to Unes Co. to have the consumption risen, for the time being, up to 10 KW per consumer and a non-stop supply of energy in order to avoid buying other means of lighting in the "black market".

3) To reinstate at once the actual public lighting in order to avoid positive inconvenients of any kind.

The Chairman of the Committe

signed: Doct. Eng. Armando Biasi

625

626

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

INCOMING MESSAGE

HEADQUARTERS ALLIED COMMISSION

Pw & U 29

Originator's Reference: 2/76
Date Time of Origin: FEB 1014304

RECEIVED
P W & U S/C A.C.
11 FEB 1945 158

Message Centre No: D/1470
Date Time Rec'd: FEB 1107004
Precedence: IMPORTANT

FROM: ANC MILITIA REGION

TO : HQ ALSOM ELECTRICAL DIV PUBLIC WORKS AND UTILITIES

RESTRICTED

RESTRICTED.

Ref your letter 158 dated 1 February 1945. Generator will be useful so we will send drivers for its removal by 12 February 1945.

ACTION

AG DIST

Action P.W. & U. S/C

Info A/President
Chief Commissioner
Room Sec
File (2)
Fleet

Exec Depot
Reg'd

RESTRICTED

HEADQUARTERS
625
11 FEB 1945
A. C.

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

IMPIANTO ELETTRICO COMUNALE

NARNI

28

RECEIVED
P.W. & U. S/C A.C.
12 FEB 1945 158

UFFICIO Impianti

Prot. N. 755
da citare nella risposta

Addì 27 Gennaio 1945

Riscontro al N. del

OGGETTO:

Allegati N. 4

Routing Slip 3/507

HEADQUARTERS

ALLIED CONTROL COMMISSION

Public Works and Utilities Sub - Commission

Apo 394

Regione IV^

Con riferimento a nota 23 novembre 1944 dell'Ingegnere Regionale, si rimette in quattro copie il progetto per i lavori di riparazione e ricostruzione oc correnti per i danni subiti dall'Impianto Elettrico Municipale di Narni come dai moduli (Form. ACC/EL/I) acclusi.-

IL SINDACO
(Robusti Rutilio)

TRANSLATION

624

Reference letter of 23rd of November 1944 from the Regional Engineer, forwarded herewith four copies of the project for the repair and reconstruction works needed for the damages suffered by the Comunal Electric Plant of Narni as per enclosed ACC/EL/I forms

Attached in envelope A

THE SYNDICO

Lt Col Regional
Rep F 12/2

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

27

P.W. & D. H.Q. C.M.F.
12 FEB 1945 158

ENGINEER SECTION (BR)
A.F.H.Q.
C.M.F.
Tele. No. Freedan 818

SUBJECT: Electrical Rehabilitation. ENG/2005/3

TO : HQ Allied Commission,
(Public Works & Utilities Sub-Commission). 9 Feb 45

Reference your letter 158/PWU dated 29 Jan 45.

The remarks in para 2 of your letter are agreed. The closer the liaison between parties concerned the better work will progress, and direct contact, with this end in view, is welcomed.

In so far as Military policy, or the use of Military personnel and materials is concerned, however, all matters concerning these factors should be routed through this HQ for decision and co-ordination.

HEADQUARTERS 11 FEB

A.W. PAGE,
Lt Col R.E.,
for M.G.R.E.

623

Copy to: CE 15 Army Gp
CG PBS (for attention Lt.Col.COOLEY).
CE 1 District.

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

Tel. 489081 Ext. 320

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

LAJ/ram

158/PWU

2 February 1945

SUBJECT: Inauguration of Central Electric Control System in Italy - 20 January 1945

TO : Col. L. D. Densmore, Acting Deputy Chief of Staff
Economic Section

1. I am attaching hereto five pictures taken at the above named ceremony at which we had the pleasure of your presence. It was a great day for this Sub-Commission and these pictures are sent to you with my compliments and with remembrance of that day.

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

Attachments
Pictures

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

Tel. ...

TAT/...

25

HEADQUARTERS ALLIED COMMISSION
APO 394
ECONOMIC SECTION

REFERENCE: ES/902

7 February 1946

SUBJECT: Operation of Lardarello Electrical and Chemical Plant.

TO: Regional Commissioner - Tuscany Region

1. We have had considerable difficulty in connection with the operation of this plant because of conflicting interests. On the one hand we have had the Conti Reality which developed and built the plant originally and whose interests are headed now by Prince Piero Ginori Conti, and on the other hand the State Railways which acquired about two-thirds interest in this property about 1928 or 1929. At that time the property was valued at about 150 million lire and the State acquired a 100 million lire interest. Since that time the St te has made advances amounting to about 70 million lire. The Minister of Transport now states that the State has an outstanding interest and should control the property.

2. In view of the above conflicting interests there was objection by these interests among the laboring groups at the plant and each side claimed to have the interest of the laborers. Things went rather badly and in order not to hold up the work we directed Col. E. A. Bell of the Electrical Division of the Public Works and Utilities Sub-Commission to take charge of the plant and take certain steps to see that what is done will hamper our reconstruction operations.

3. The Minister of Transport then wanted to make an investigation of the situation and appointed Mr. Matino Della Torre to make such an investigation and to make a report to him. This man went to the plant without authority from either your office or our office and when he was found at the plant making this investigation he was promptly brought back to Rome by Col. Bell.

4. On 4 December 1944 we addressed a communication to you on this subject and asked you to take an interest in the affairs of this company, so as to avoid any further delay in the rehabilitation and operation of the electrical plants at Lardarello, in which we are vitally interested.

5. You replied to us on 21 December 1944 and you stated that it was your opinion that this was "outside the province of the Tuscany Region, being a matter for decision in the Italian Civil Courts in due course".

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

FOR 20th S/C.

6.

5. Meantime the Italian Government has passed a Decree No. 4[illegible] of 19 October 1945 authorizing the appointment of a Commissario to manage properties for the Italian Government when deemed necessary to do so.

7. On the strength of this Decree the Minister of Transport wrote us a letter under 19 of January 1946 advising us that he deemed it necessary to appoint a Commissario to manage the Ansaldo property in the interest of the Italian Government and appointing Mr. Marino Della Torre Commissario and he asked for our approval of this appointment.

8. The above named Decree was published in the Gazzetta Ufficiale del Regno on 13 January 1945 and on 19 of January 1946 the Minister of Transport sent us another communication asking us, if, on the strength of this Decree there were any objections on our part to the appointment of Mr. Marino Della Torre to be appointed Commissario of the Ansaldo Firm and to proceed with his duties. No comment on this subject was made by us pending comment from you.

9. It would not appear that Mr. Della Torre has much experience to undertake such an important task. We are vitally interested in the harmonious operation and effective control over the management of this plant and are concerned about the matter. It has been suggested that his appointment will lead to labor difficulties.

10. It is felt that this is a Regional matter and the above is submitted for your action. If, in your opinion however, this matter should be settled at this Headquarters, please let us have your recommendation. The Public Works & Utilities Sub Commission Electrical Engineer, Col. Bell, Florence Tel. 1[illegible], is thoroughly familiar with the situation at this plant and you may care to discuss the subject with him before advising us as to what you think should be done.

By command of Rear Admiral Smith:

L. F. [illegible]
Colonel, U.S.
Acting Deputy Chief of Staff
Economic Section

620

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

File

WHL/ac

Tel.489081
Ext. 317

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

24

Reference : 158/PWU

8 Jan. 45

Subject : Initial report of
Advanced Section Electrical Division

Dear Major Bell,

I am writing this as a personal letter to you to say how much I apprecia te the work which you have done in setting up the Advanced Section of the Electrical Division in Florence.

The contacts which you are making in the forward area will be most useful and as your office becomes known this will save a considerable amount of time in dealing with urgent matters in forward area.

Your first report I read with pleasure, this gives us just the information which we require and we now feel, for the first time, that we know what is happening in the forward area.

You will be interested to know that Col.Jenny's remarks on your first report were "I read this with interest and consider it a good clear report devoid of unnecessary sentences - signed L.A.Jenny, 7/2/45".

With my best wishes to you and your team.

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

to : Major ROBERT A. BELL
Via de' Cerretani N° 6
= FLORENCE =

619

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

21

Partial Report of
Motor Secn. SC, Dur.

removed to file 231

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

ALLIED MILITARY GOVERNMENT
PROVINCE of SIENA

RECEIVED
P.W. & U. S/C A.C.
6 FEB 1945 158

Ref:

Subject:

Date Feb. 1, 45

To: Major RENTON
P.W. & U. Div.
H.Q. A.C. Rome

Dear Major Renton

1. Enclosed line diagram of the Southern part of Siena Province S.E.V. 10 KV. as promised. From this you will see that it is quite possible to supply this area from Selvena.

As the transformer steps up to 30 KV in station it would be necessary to install a 30/10 KV transformer at Selvena and I understand that the S.E.V. have one in Florence and would be willing to ship it to Selvena if 400 KWS could be allocated to them from Selvena plant for this area.

This would allow power from Abbadia S. Salvator (Pagliola) to be used in the Torrenieri-Montalcino area.

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

22

HEADQUARTERS
SOUTHERN REGION ALLIED COMMISSION
Public Works &Utilities Section
APO 394

RECEIVED
P W & U S/C A.C.
3 FEB 1945 158

2 February 1945

SUBJECT : Alto Belice Unit.

TO : Headquarters Allied Commission
Public Works &Utilities Section
Attention Lt. Col. W. M. Lapper.

1. I am enclosing herewith a report by Eng. Manturzo of Società Meridionale Elettrica covering the operation of the Alto Belice Unit in the S. Maria Plant on the Brasimone River.

For the Regional Engineer :

R. A. RYAN
Major Spec. Res.

RAR/rb

Enclo.

616

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

SOCIETÀ MERIDIONALE DI ELETTRICITÀ

Memorandum for Maj. RYAN

DISPLACEMENT OF BELICE UNIT
IN THE S.MARIA PLANT (BRASIMONE RIVER)

For what we know Belice unit and S.Maria plant would have the following characteristics:

Belice unit: Head 475 m.
Capacity 3500 - 3800 kW
Max Flow about 1 m^3/sec
Frequency 50 Hz

S.Maria plant: Head 312 m.
Frequency 42 - 50 Hz
Average flow 0,67 m^3/sec

The plant was paralleled with Adriatica Co. grid (42 Hz). Now the plant will be perhaps paralleled with the Terni-Romana grid (45 Hz). In what follows we have considered the cases of operation at 42 and 45 Hz.

^ ^ ^

At 45 Hz the Belice unit would be operated in the S.Maria plant with a relative loss of head of about 23%. The theoretical loss of efficiency would be of about 3-5% and the capacity of about 1700 - 1900 kW. As we have no detailed drawings we cannot estimate if there will be hit of the water jet on the back of buckets and against the case with further reductions of efficiency, output and various other troubles. We are not able, also, to estimate if the governor will require some fittings. In every case tests will be necessary.

615

./.

^ ^ ^

Mod. 8 (20.000) Tip. A. Trani '48

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

SOCIETÀ MERIDIONALE DI ELETTRICITÀ

At 42 Hz. the relative loss of head would be of about 7%, the theoretical loss of efficiency quite small, the output of about 1800-2000 kW. We should not foresee hits of the water jet. Doubts about the action of the governor still remain.

As for the energy available we estimate about 12.000.000 kWhs/year.

Voltage of generators of S.Maria plant would result of 5 kV. The Belice unit will give, on account of reduced speed, a voltage below the 10 kV. There will be, of course, a question of ratio for the step-up transformers.

Naples, the 1st February 1945

TM/ep

614

RECEIVED
PW & U S/C A C
3 FEB Recd 158

ENGINEERING DIVISION
HEADQUARTERS
AMG/AC
ABRUZZI MARCHE REGION
C.M.F.

TO : HQ, AC, PW. and U. Sub-Commission.
(Attention of Maj. Renton).
SUBJECT: Electricity Supply, Aquila.
REF : R5/516/2/4
DATE : 1 February 1945.

Our electricity supply to Ascoli and Aquila Provinces is in dire straits. Bolognola and Carassai, supplemented intermittently by Pedasso, have been meeting our bare needs until about ten days ago. Since then springs feeding Bolognola have frozen up and in the absence of melting snow power production has dropped from 1200 to 500/600 KW. Carassai has closed down on account of damage to guide vanes of the turbine. Conditions at Bolognola are expected to persist for another month and repairs at Carassai will take ten days.

In consequence the normal allocation of 750 KW to Aquila has been cut to 200 KW. In spite of severe restrictions imposed in Aquila and Ascoli Provinces we are still overloaded causing a serious drop in voltage.

The attached graph showing hourly readings of load and tension in the Aquila town substation indicates the position. Apart from the effect on essential industries we are unable to maintain an adequate service to the hospitals and have disconnected civilian telephones as it is impossible to keep batteries charged in the TIMO telephone exchange. Official phones are using more current than can now be re-charged into the batteries and we are faced with a complete stoppage of the telephone service in a few days time as the batteries become exhausted.

In the circumstances it is requested that an emergency allocation of 500 KW be made from Terni which we can take in via Antrodoco. As the Terni supply is at 45 cycles we cannot parallel in with Bolognola at 50 cycles and we would relinquish our 200 KW from that source to assist Ascoli.

It is expected this emergency supply would be required for 3 to 4 weeks.

R.

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

Our electricity supply to Ascoli and Aquila Provinces is in dire straits. Bolognola and Carassai, supplemented intermittently by Pedeso, have been meeting our bare needs until about ten days ago. Since then springs feeding Bolognola have frozen up and in the absence of melting snow power production has dropped from 1200 to 500/600 KW. Carassai has closed down on account of damage to guide vanes of the turbine. Conditions at Bolognola are expected to persist for another month and repairs at Carassai will take ten days.

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It is expected this emergency supply would be required for 2 to 4 weeks.

For the Regional Engineer:

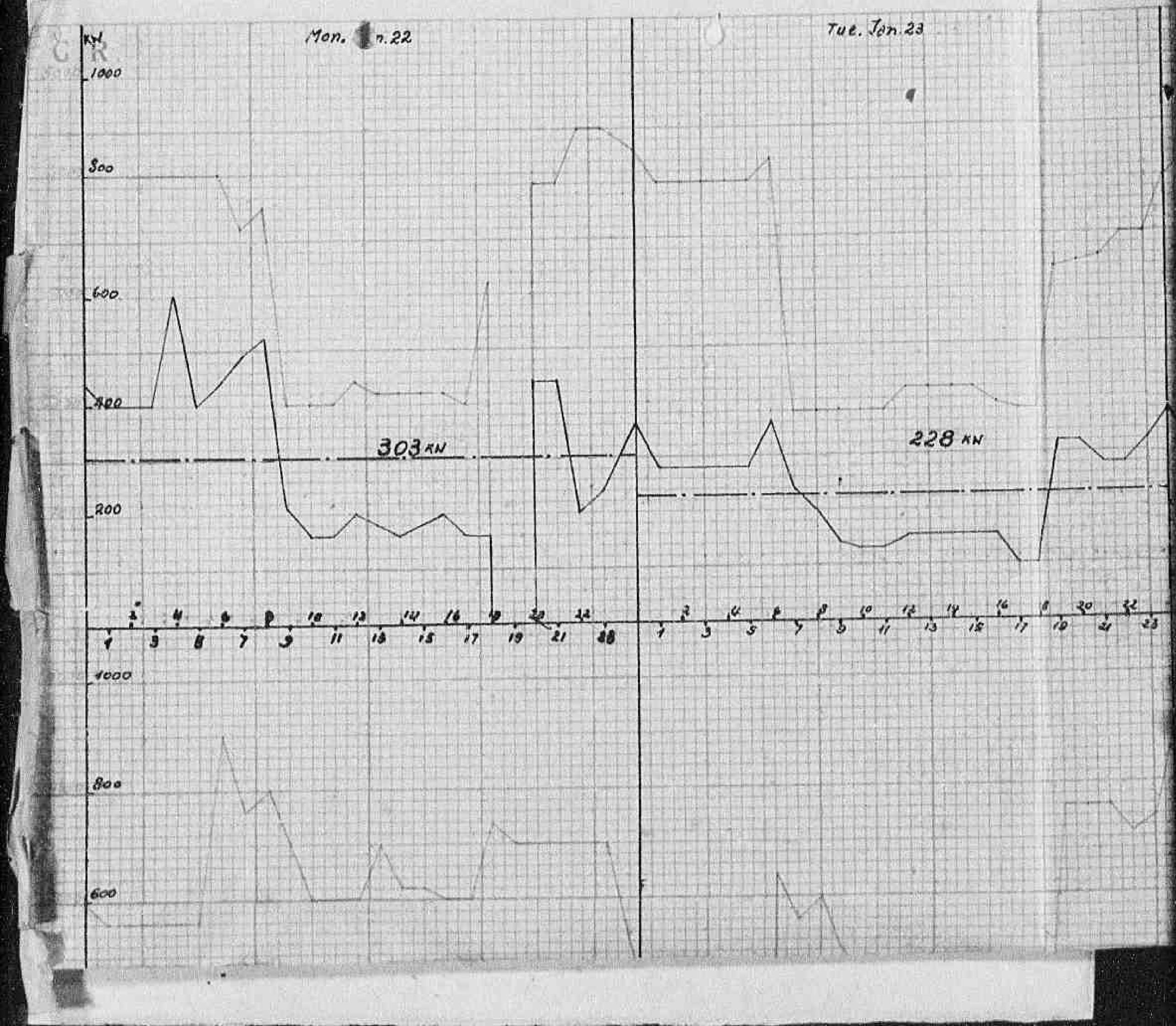
J.E. FODEN
Major,
Regional Electrical Engineer

55 refers

613

declassified E.O. 12356 section 3.3/NND No. 785019

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



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

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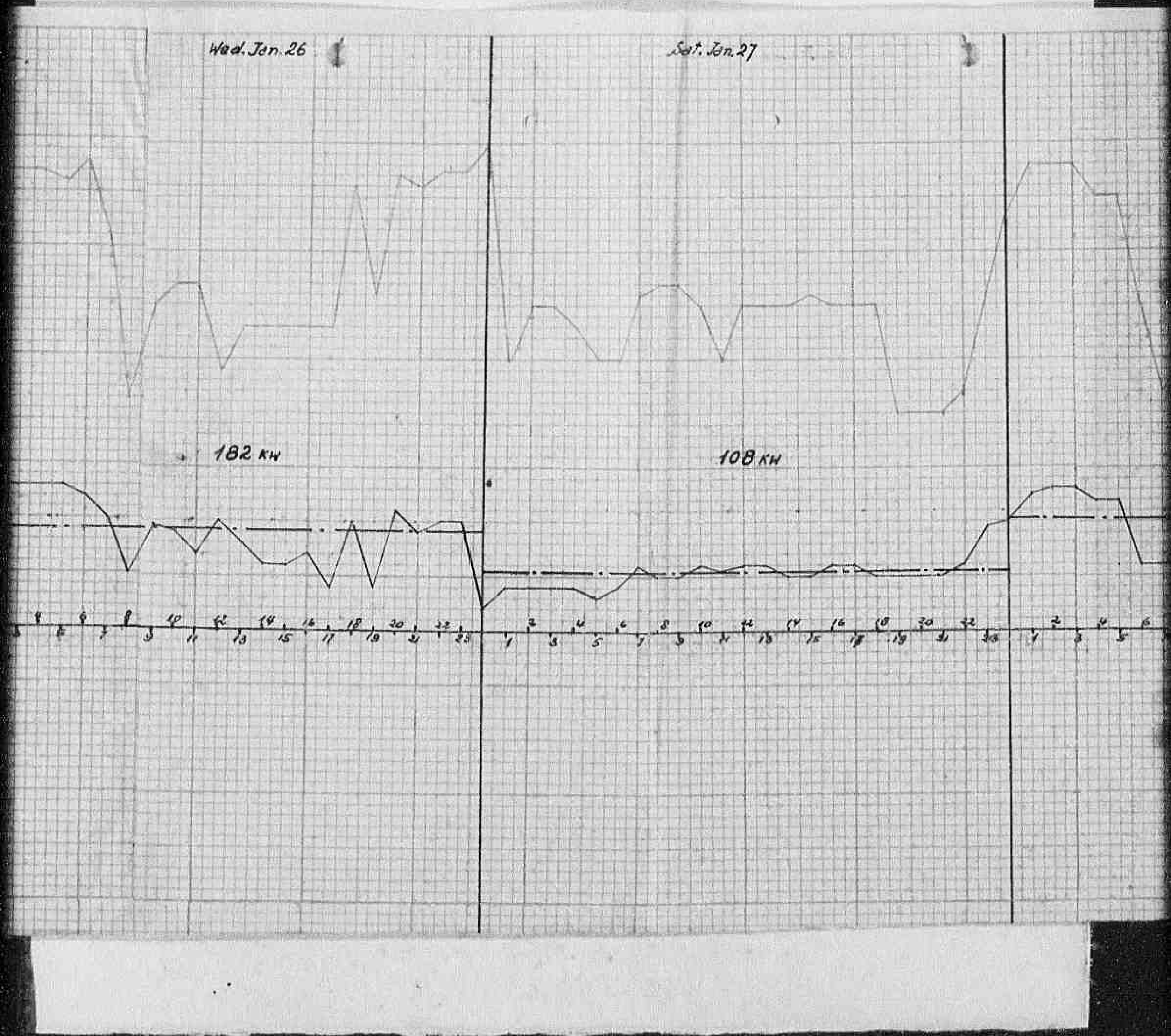
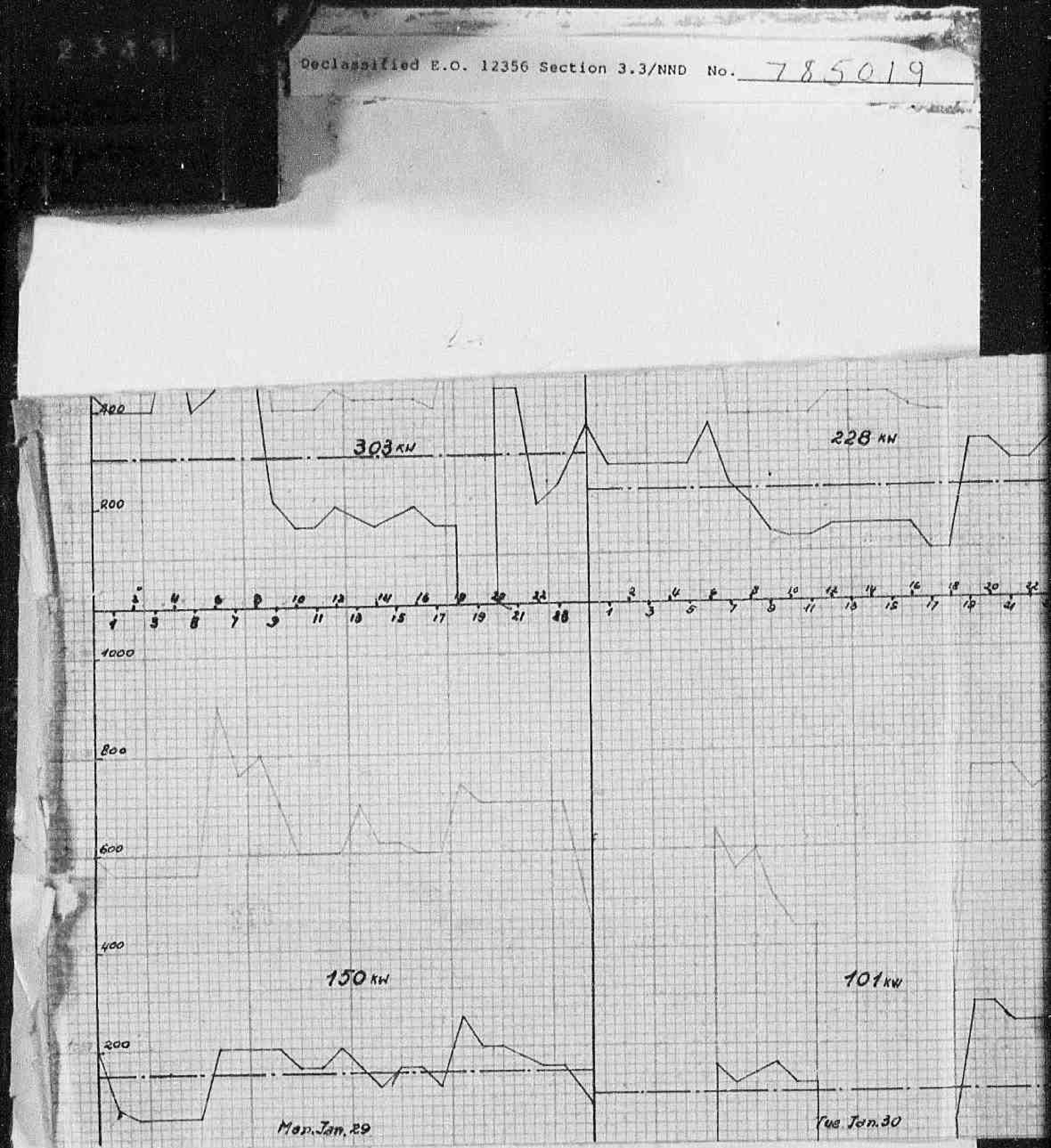


Declassified E.O. 12356 Section 3.3/NND No. 785019

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



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

228 KW

204 KW

101 KW

Tue Jan. 30

142 KW

Wed 1 Feb.

UNE

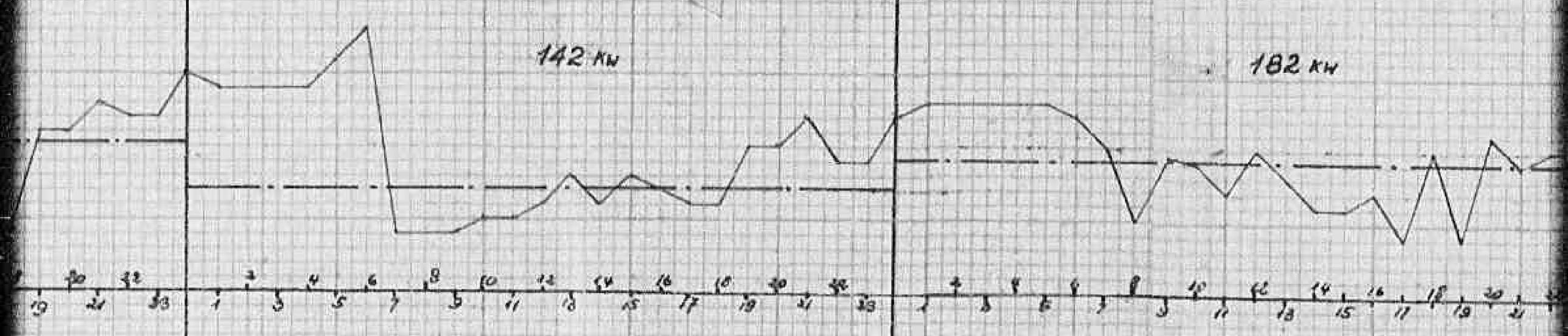
NOTICE

SHORTLY RECORDS

TOWN'S DISTRIBUTION

NORMAL VOLTAGE

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



UNES - AQUILA

HOURLY

SHORTLY RECORDS OF LOAD AND VOLTAGE TAKEN IN TOWN'S DISTRIBUTION SUB-STATION.

NORMAL VOLTAGE ON HT SIDE 5000 V.

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

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

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

RECEIVED
P.W. & U. SUB C.A.
2 FEB 1945
158

19

HEADQUARTERS
AMG/AC
ABRUZZI-MARCHE REGION
C.M.F.

TO : HQ. AC. P.W. & U. Sub Commission
(Atten Lt. Col/W.M. Lapper)
SUBJECT: Sagittaria Hidro Plant (Anversa)F.S. State R.R.
REF. : R5/516/2/1
DATE : 31 January 1945

In reply to your 158/PWU dated 27 Jan. it has been arranged for UNES to supply Anversa with 30 KW for 24 hours on alternate days and with 30 KW between 07.00 and 17.00 hours on the intervening days.

The supply will be from the Fettorano and Pietra Regia plants which are taking the whole of the load of the Sulmona and Avezzano districts. The line from Sulmona to Anversa supplies other Communes and normally is energised only on alternate days. As Anversa cannot be isolated from other Communes on the line and the system is already overloaded during the lighting period the 0700 to 1700 hours limitation on alternate days is the best we can do for the moment.

The Pescara - Bussi line is expected to be completed in a few days and supplementary power brought in by this route should enable us to lift the restriction on Anversa.

For the Regional Engineer

J.E. FODEN
Major
Regional Electrical Officer

HEADQUARTERS
2 FEB 1945
A. C.

Lt Col Lapper W.M.
Engr 2/2

611

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

Tel. 489081 Ext. 320

18

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

158/PWU 2 February 1945

SUBJECT: Inauguration of Central Electric Control System in Italy - 20 January 1945

TO : Col. L. D. Densmore, Acting Deputy Chief of Staff Economic Section

1. I am attaching hereto five pictures taken at the above named ceremony at which we had the pleasure of your presence. It was a great day for this Sub-Commission and these pictures are sent to you with my compliments and with remembrance of that day.

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

Attachments
Pictures

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

VSR/lam

Tel. 478.906

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

1 February 1945

Reference: 158/PWU

SUBJECT : Portable Electric Generator.

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

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

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

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

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

By command of Rear Admiral Stone.

W.M. LAPPER
Lieut-Colonel
Chief Electrical Division

Copy to file 203

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

Original

EJB/lem

Tel. 489081
Ext. 317

HEADQUARTERS ALLIED COMMISSION
Public Works and Utilities Sub-Commission
APO 794

16

Reference: 158/PWU

30 January 1945

TO : "TERNI" Soc. per l'Industria e l'Elettricita'

SUBJECT : Galleto and Cotilia
(Att. Prof. Angelini).

Now that the first unit of Galleto is in production it is necessary to make definite plans for the next unit that will go into operation in that station. It is necessary that a tentative date be established for the initial operation of the second group and the 1st group at Cotilia so that the allocation and transmission of this power can be planned. You are therefore requested to submit before 6 Feb. a proposal containing the following information concerning each unit in chart form similar to enclosed.

1. Tentative date for initial testing and operation of unit.

2. Date for delivery of major parts of turbine castings from the Terni Steel Co.

3. Date for completion of assembly of turbine, valves and regulators.

4. Date for assembly of alternator.

5. Date for completion of transformer oil treatment and installation of transformer and necessary switchgear

Our field engineers will follow the construction schedule submitted by you and where possible give assistance that will speed up the work. It is our understanding that all materials necessary for the completion of this unit are on hand and you are therefore advised to notify us promptly of any critical materials that you have not been able to procure.

W.M. LAPPER
Lieut-Colonel
Chief Electrical Division

608

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

RECEIVED
P.W. & U. S/C A.C.
28 JAN 1945 110

MINISTERO DEI TRASPORTI
GABINETTO

Roma, 27 GEN 1945

N. UL/136-B/1640

Seguo a nota 16-1-1945
n. UL/136-B/893

OGGETTO: Società Anonima Larderello.

15

Traduttore
Marchesi

ALLA COMMISSIONE ALLEATA
Sottocommissione dei Lavori Pubblici

e p.c.

ALLA PRESIDENZA DEL CONSIGLIO DEI MINISTRI

R O M A

Con decreto legislativo luogotenenziale 19 ottobre 1944, n.420, pubblicato nella Gazzetta Ufficiale del Regno il 18 gennaio corrente, sono state emanate le norme relative alla nomina di commissari governativi alle società concessionarie di pubblici servizi o di beni di pertinenza dello Stato o che fruiscano di finanziamenti o partecipazioni o garenzie da parte dello Stato.

In base all'art.10 di detto decreto la nomina del Commissario per la Gestione della Società in oggetto è di competenza di questo Ministero.

Pertanto, in modifica di quanto si è richiesto con la nota su indicata, si prega codesta Commissione di far conoscere se nulla osta alla nomina dell'Ing.Marino DALLA TORRE a commissario della società stessa.

607

IL MINISTRO

Rome, 26 th of Jan. 1945

UL/136-B/1860
xxxxxxx Ref.to note 16-I-1945
n. UL/136-B/893

SOCIETA ANONIMA LARDARELLO.

TO / ALLIED COMMISSION
SUB-COMMISSION of PUBLIC WORKS
TO/ PRESIDENZA DEL CONSIGLIO DEI MINISTRI
ROME

With the Decree D.L.L. of the 19 of OCT. 1944 N. 420, published in the "Gazzetta Ufficiale del Regno" the 18th of Jan. 1945, it is stabilized the appointment of the Commissari Governativi to the Firms granting public services or of State property or that profit from financial participations or warranty from the State.

As art.10 of the above Decree the appointment of the Commissario for the management of the Firm in object, it is of competence of this Ministry.

However, modifying to what is requested above, we beg your Commission to let us know if there are any objections to the appointment of Ing. MARINO DELLA TORRE to Commissario of the above Firm.

THE MINISTER

F.to Ceradona

606

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

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

Tel. 489081
Ext. 320

LAJ/oe 14

HEADQUARTERS ALLIED COMMISSION
Inter Office Memo.

REFERENCE: 110/PWU. 25 Jan.45
SUBJECT : Appointment of a Commissario for Lardarello.
TO : Acting Dep.Chief of Staff, Economic Section.
FROM : P.W. & U. Sub-Commission.

1. I am attaching hereto 2 copies of a translation of a letter received from the Minister of Communications, Signor Cerabona, in which he asks for authority to appoint a Commissario to direct the affairs of the Lardarello Company, a company producing electricity and many chemical by-products, using natural steam as the vehicle of power. This plant is located in Pisa Province.

2. We have had considerable operational and other difficulties at this plant and we have been unable to settle these matters to our satisfaction, as there are numerous political questions involved.

3. We believe this to be of considerable importance and for that reason I wish to ask you to please arrange for a conference with Brig. Upjohn, so that we may present our case orally and obtain a decision as to what action we should take in this matter. Will you please advise me.

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

605

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

Col Roper

Pls have the translation checked. It does not sound right in some places. Then have several copies typed so we can take up this matter with people tomorrow.

Earl W

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

RECEIVED
P.W. & U. S/C A.C.
16 JAN 1945 11o

MINISTERO DEI TRASPORTI
GABINETTO

N. U.L.136-B/892

Risposta al N.

All

OGGETTO: Soc.An."Larderello".

Traslation attached

Roma, 16 gennaio 1945

Ex Ec Eyke 13

Per diverse vite ma
Era in Italia

ALLA COMMISSIONE ALLEATA
Sottocommissione dei Lavori Pubblici

R O M A

E' noto a codesta Commissione il complesso degli stabilimenti della Soc.An."Larderello".

Questa Società fu costituita in Roma, nel 1939, fra l'Amministrazione delle Ferrovie dello Stato e il principe Piero Ginori Conti per lo sfruttamento, ai fini della produzione dell'energia elettrica, dei giacimenti dei vapori e gas esistenti nelle provincie di Grosseto, Livorno, Pisa e Siena. Ebbe un capitale inoziale di 54 milioni, elevato dopo, con l'assorbimento della società boracifera "Larderello", a 150 milioni.

Alla ripresa delle attività della "Larderello" le Ferrovie dello Stato sono le maggiormente, se non le uniche, interessate perchè rappresentano 104 milioni di partecipazione azionaria ed oltre 78 milioni di anticipazioni di fronte agli altri soli 46 milipni di capitale.

Intanto il consiglio di amministrazione della società non è però in grado di funzionare per l'assenza della quasi totalità dei componenti oltre che per la origine fascista di esso; sono sorti perdippiù forti dissidi tra le maestranze e la direzione generale e persino tra i membri della stessa direzione generale;ed infine, come riferiscono le Commissioni di epurazione, non riesce possibile neppure prendere in esame, ai fini dell'epurazione, la posizione del personale, perchè la direzione generale, per quanto più volte sollecitata, non fornisce il materiale necessario.

Stando così le cose,s'impone la nomina di un Commissario.
Questo Ministero ha da tempo designato alla Presidenza del Consiglio dei Ministri l'Ing.Marino Dalla Torre, elemento che dà le più ampie garanzie di intelligente, fattiva e corretta amministrazione, ma non si è ancora potuto provvedere sulla proposta per non essere stato ancora perfezionato il decreto legislativo concernente la nomina di commissari alle Società sottoposte a

./.

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

MINISTERO DEI TRASPORTI
GABINETTO

Roma

N.

Risposta al N.

OGGETTO:

controllo o vigilanza dello Stato, o nelle quali lo Stato è interessato per partecipazioni azionarie o per anticipazioni.

In attesa della nomina si è conferito all'ing.Dalla Torre l'incarico di inquirere per conto di questo Ministero e di riferire sullo stato degli stabilimenti, ma,per contrattempi verificatisi, l'ing.Dalla Torre ha solo in parte espletato il suo compito,riferendo però circostanze che confermano la necessità di provvedere e di urgenza al ripristino dell'organo di amministrazione, anche straordinario, non potendo la Direzione Generale, comunque costituita, sostituirsi ad esso.

Si rivolge, pertanto, viva preghiera a codesta Sottocommissione, con riferimento anche alle intese verbali intercorse, di volere nominare, con suo provvedimento, l'ing.Dalla Torre, commissario alla Larderello in attesa che sia perfezionato il decreto legislativo suaccennato o di voler dare il suo gradimento per tale nominativo di modo che l'ing.Dalla Torre possa continuare nella sua inchiesta e, perfezionato il decreto, possa essere nominato Commissario.

IL MINISTRO
Cerabona

603

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

Tel. 489081.
Ext: 320.

LAJ/sg

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

12

REFERENCE : 158/PWU
SUBJECT : Electrical Reconstruction.
TO : Acting Deputy Chief of Staff,
Economic Section.

28 January 1945

1. It may interest you to know that we have set up a sort of Board, called "Advisory Committee on Electric Power": (See attached notice). This is composed of the Chief Engineers of the various Electric Companies interested. The Vice Chairman, Mr. Asta, is the Electrical Liaison Officer of the Minister of Public Works working here in our office with Lt.-Col. Lapper. Col. Lapper retains the Chairmanship until such time as this is functioning satisfactorily. Then it is our intention to have the Chief Electrical Engineer of the Public Works Ministry assume the Chairmanship. The Secretary is an Italian electrical engineer and interpreter in Col. Lapper's office, who is also familiar now with all of the work.

2. Once this is functioning properly the Italians can take over most of the work in Central Italy and Col. Lapper can then concentrate on North Italy.

3. It is our intention to form similar Committees in South Italy and North Italy and then have one Central Board for all of Italy, composed of the Chairmen of each of the 3 Areas, with the representative of the Ministry of Public Works as the General Chairman. Thus Italy would operate in a similar way in which the Central Electricity Board is operating in England, and which has been very successful.

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

602

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

Tel.489081

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

WVI/ac

30 Jan. 45

Reference : ~~21/PWU~~

Subject : Electricity Supply

To : REGIONAL COMMISSIONER LAZIO-UMBRIA REGION
(Attention Regional Engineer)

1) - The demand for electricity in Rome continues to grow and this is causing some difficulty in meeting the supply to other areas of high priority.

2) - In the Naples area an order has been issued under which all shops must close at 15.00 hours each day. This has resulted in an appreciable saving in electricity and system demand during peak load hours.

3) - It is suggested that a similar arrangement may be made in Rome where there are many shops and signs lit up late in the evening. The order should include Barber Shops as we feel that the number of their establishments and the water heaters in use are causing much of the trouble.

4) - It is hoped that you will be able to put this arrangement into effect at an early date.

By command of Rear Admiral STONE.

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

601

cc : file 060
" 158

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

P.W. & D. U.S.A.
168
31 JAN 1945 200

ENGINEERING DIVISION
HEADQUARTERS
AMG/AC
ABRUZZI MARCHE REGION
C.M.F.

TO : HQ, AC. P.W. and D. Sub-Commission
(Attent. of Maj. Barry)
SUBJECT : Allocation to 1 Dist. of power from Celetto.
REF : R5/516/2/4
DATE : 29 January 1945.

Copy of letter dated 13 January 1945 from UNES Technical Office, Ascoli, is forwarded for your information.

The importance of Ing. Segenti is not known, and it is assumed that the question of power allocation to 1 Dist. has already been dealt with in the proper quarter.

For the Regional Engineer:

J.E. Foden.
J.E. FODEN
Major,
Regional Electrical Engineer.

I would like instructions from Command
to know if this Dist. should
be supplied and how it should be done.
This will be done if
may - Paul

Lt Col Roper
Paul
Ref 31/1
A Hill

P.W. & D. U.S.A. 10

600

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

Ascoli Piceno January 13th 1945

UNIONE ESERCIZI ELETTRICI
SOCIETA' ANONIMA-SEDE
IN ROMA
Capitale Sociale Emesso
e Versato L.268.125.000
ESERCIZIO TECNICO

TO THE
COMMAND 20 CRE WORKS.
5th Region A.C.
AQUILA

Furniture TERNI TO CAMERINO

Yesterday, 12th inst. we confered with Mr.Eug.Seganti of the Terny Company in merito regarding the furniture of KV 3.000 to Camerino, as communicated by your letter of November 18th 1944 and by the subsequent note of Mj.Rivet, dated November 26th 1944.

Eng.Seganti told us that the furniture can not take place before the first decade of the next month of February because the works in the Power station of Galetto and on the trunk of the line 65 KV Foligno Camerino have still to be completed.

The said Engineer then reported that he has no knowledge of any order of the Allied Military Government concerning the entity of the furniture, the time fixed to begin it and the place where to consign the energy.

We confirm that the Unses is ready to receive electric current at Camerino and to incorporate it into its own networks of 65 KV.

Yours truly

Unione Esercizi Elettrici
Esercizio Tecnico

599

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

Tel. 488.081
Ext. 317

WEE/lem

HEADQUARTERS ALLIED COMMISSION
APO 234
Public Works and Utilities Sub-Commission

9

15 January 1945

158/PWU

SUBJECT: Transformer for Terracina

TO : Engineer Section AFHQ.

(3)

1. Reference your letter ENG/2005/5 dated 12 Jan.45 requesting that we arrange for transformer movement.

2. As we understand it the Allied Commission is charged with the task of rehabilitation of Electrical Plants and Transmission Systems in Italy, Sicily and Corsica. To work direct with the Army or District on all electrical matters within their respective areas.

3. Since we are already in touch, and have had discussions with the essentials concerned, regarding the drying out and movement of transformers raised in your letter of 22nd Jan.1945, it may avoid misunderstanding with the essentials and prevent duplication of work if you allow the present system to remain.

4. We now have an office in Florence under the charge of Major E.A. Bell with three officers giving assistance and guidance to the Electrical Companies and keeping in touch with 15th Army.

W.M. [illegible]
Lieut-Colonel
Chief Electrical Division

Copy to: 15 Army Gp for CE
CO PBS (for attention Lt.Col. Conley)
CO 1 District (ref. CE 2084 dated 15 Jan. 45)
Major E.A. Bell.

598

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

General Gift.

R

VER/lam

Tel. 478936 HEADQUARTERS ALLIED COMMISSION
Public Works and Utilities Sub-Commission
APO 394

I sent copy to me
Re Beer
1/28/45

15 Jan. 1945

AGO/PWU

SUBJECT: Rehabilitation of Electric Facilities

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

1. In accordance with AFHQ Administrative Memorandum No. 98, dated 12 December 1944, subject: Power Rehabilitation, the Allied Commission is charged with definite responsibilities in connection with the rehabilitation of electric facilities throughout Italy. For your information there is transmitted herewith one copy of the reference memorandum.

2. Because of the pressing need for electricity in Central Italy, it is necessary that the rehabilitation of the damaged electric properties proceed in a rapid and efficient manner. Past experience has indicated that this work can best be supervised and expedited by Allied officers working under a single direction. Up to now they have worked from the office of the Electrical Division, Public Works and Utilities Sub-Commission. However the plants in the North which are now under repair are such distances from this office that an excess of time is consumed in travelling to them.

3. Consequently, it is now planned to establish a Forward Office of the Electrical Division in North Central Italy from which supervision of plants in that area will be done. Because of its accessible position, Firenze has been selected as the first location for this office.

4. The Forward Office will be in charge of Major T.A. Bell of the Electrical Division. Under him there will be several Allied officers who will be provided by the Public Works and Utilities Sub-Commission. Major Bell as Chief of the Forward Office will report to the Chief, Electrical Division, Public Works and Utilities Sub-Commission.

5. The specific duties of the Forward Office are as follows:

(a) To maintain liaison between the Electrical Division, Public Works and Utilities Sub-Commission and the electric power companies concerned.

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Have given copies to Major Bell
for delivery 27/1/45.
R.

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

(b) To keep the responsible military District, Base Section, Allied Construction Region and Army AAG informed as to rehabilitation plans and progress of work.

(c) To prepare plans for the rehabilitation of electric facilities in North Central Italy, as may be directed by the Electrical Division, Public Works and Utilities Sub-Commission.

(d) To issue all orders necessary to implement construction plans of the Electrical Division to the Electric Power Commodity involved.

(e) To use available means in directing, coordinating and supervising the construction work involved in rehabilitation of electrical facilities.

6. It is contemplated that the Regional Engineer will be responsible for rehabilitation of transmission lines of voltages lower than 66 KV, and for establishing and operating wartime practices. The remaining transmission lines and facilities will be handled by the Regional Engineer.

7. The Commanding [illegible] Chief Electrical Division, and Lieut. Col. [illegible], Regional Engineer, Tenth Region, Lt.Col. Peters [illegible], Regional Engineer, Twenty Region.

F.E. HARPER
Lieut-Colonel
Chief Electrical Division.

Enclosures

C.C. 5th Army AAG (Attn. Maj. D. Curtis)
8th Army AAG
NBE Engineer (Attn. Lt.Col. G. Cooley)
Hq. 1 District (Attn. Maj. [illegible] Smith)
Regional Commissioner, Civil Affairs
(Attn. Lt. [illegible], Bureau)

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

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

b. AAI will:

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

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

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

c. USE (Italy) FBE, and District (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 AC 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.

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

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

By command of Field Marshal ALEXANDER
(sgd.C.W. CHRISTENSEN)
C.W. CHRISTENSEN
Colonel, AGD
Acting Adjutant General

595

RESTRICTED

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

7

Fol. 7

to
file 171

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

Tel . 489081.
Extn: 320.

LAJ/sg

6 file

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

28 January 1945

REFERENCE : 158/PWU.
SUBJECT : Electrical Reconstruction.
TO : Acting Deputy Chief of Staff,
Economic Section.

1. It may interest you to know that we have set up a sort of Board, called "Advisory Committee on Electric Power": (See attached notice). This is composed of the Chief Engineers of the various Electric Companies interested. The Vice Chairman, Mr. Asta, is the Electrical Liaison Officer of the Minister of Public Works working here in our office with Lt-Col. Lepper. Col. Lepper retains the Chairmanship until such time as this is functioning satisfactorily. Then it is our intention to have the Chief Electrical Engineer of the Public Works Ministry assume the Chairmanship. The Secretary is an Italian electrical engineer and interpreter in Col.Lepper's office, who is also familiar now with all of the work.

2. Once this is functioning properly the Italians can take over most of the work in Central Italy and Col. Lepper can then concentrate on North Italy.

3. It is our intention to form similar Committees in South Italy and North Italy and then have one Central Board for all of Italy, composed of the Chairmen of each of the 3 Areas, with the representative of the Ministry of Public Works as the General Chairmen. Thus Italy would operate in a similar way in which the Central Electricity Board is operating in England, and which has been very successful.

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

593

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

Tel.489081

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

LWL/ac

5

27 Jan. 45

Reference : 158/PWU

Subject : Sagittaria hydro plant
(Anversa) F.S. State R.R.

To : REGIONAL COMMISSIONER MARCHE-ABRUZZI
MOLISE REGION (Attn Regional Engineer)

1) - In order to carry on the work of rehabilitating the above power plant it will be necessary to provide 30 KW of power for construction purposes.

2) - This will have to come from the UNES Company.

3) - Please make arrangements through District N° 3 for this power immediately.

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

19 refers

cc : Major E.J.Barry

592

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

Tel.489081
Ext.320

LAJ/ce

4

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

158/PWU.

26 Jan.45

SUBJECT: Electrical Rehabilitation.

TO : His Excellency Meuccio Ruini,
Minister of Public Works.

1. In accordance with our agreement I am attaching hereto a program for electrical rehabilitation to be incorporated into the overall program which you are preparing for use in connection with credits from the United States.

2. You will note that the reconstruction of electrical plants is placed under 4 priorities and, therefore, this list should be placed accordingly in your program. With that I do not mean that the 2nd, 3rd and 4th priority should be much behind the 1st priority. They must be placed very close together on your program of priorities, as we consider these plants and transmission lines to be a first necessity in the rehabilitation of Italy. You are fully aware of the fact that without electricity other plants cannot operate.

3. According to the above it is recommended that the plants and transmission lines indicated be placed in columns 1, 2, 3 and 4 of your tabulated statements, so that all of them may be handled in an early priority.

4. I wish to point out particularly that the reconstruction indicated in the attached list is probably only one half of the total to be rebuilt. It is considered by us to be the most vital and most important phase of the electrical plant and transmission line rehabilitation program. The other one half will have to be placed by you in a similar order to be undertaken after the above named list is in progress of being manufactured, or at least orders for the manufacture have been placed. I assume that you realise that it will take many months even for the

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

No.I plant on the No.I priority to arrive in Italy and to be installed. For that reason it is urged that steps be taken, as soon as possible, preliminary to the placing of actual orders for such plant and equipment.

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

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

Electrical Division

Priority	Name of Station	Province	Head in M.Metres	Size of Generating Sets - Kw.	Transformers	Est.Weight Metric Tons	Est.Cost at 150 dollar per Kw.
1	Larderello	Pisa	-	5 x 15,000 75,000	5 9,000/120,000 2 38,000/120,000 1 4,500/ 9,000 2 9,000/ 500 2 9,000/220,125	T. 9,000	11,250,000
1	Livorno	Livorno	-	3 x 17,500 52,500	2 56,000-28,000/ 5,300 2 60,000/ 5,300	T. 6,000	7,875,000
1	Cervara-	Ascoli P.	285.50	1 x 7,000	3 6,000/66,500 1 6,000/ 9,000 2 6,000/220,139	T. 800	1,050,000
1	Castel-madama	Roma	40.—	2 x 6,000 1 x 3,000 15,000	2 8,500/ 30,000 2 8,500/ 70,000	T. 1,500	2,250,000
1	Mandela	Preci	28.—	2 x 3,000 6,000	2 10,000/60,000	T. 600	900,000

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

Priority	Name of Station	Province	Head in M.Metres	Size of Generating Sets - Kw.	Transformers	Est.Weight Metric Tons	Est.Cost at 150 dollar per Kw.
1	Acqueria (S.Giov.)	Roma	165	3 x 12,750 38,250	5 6,750/ 57,500 2 7,000/ 23,000	T. 3,800	5,737,500
2	Pescara 1	Pescara	28	2 x 4,960 9,920	6 6,300/ 25,800	T. 1,000	1,488,000
2	Pescara 3	Pescara	48	2 x 11,200 22,400	2 6,300/150,000	T. 2,300	3,360,000
2	Pescara 4	Pescara	48	2 x 12,000 24,000	2 10,000/154,000	T. 2,400	3,600,000
3	Alto Fa[illegible]	Rieti	165	3 x 6,400 19,200	2 5,500/ 64,000 4 6,000/ 60,000	T. 1,900	2,880,000

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

	Name of Station	Provincia	Head in M.Metres	Size of Generating Sets - Kv.	Transformers	Est.Weight Metric Tons	Est.Cost at 150 dollar per Kw.
3	Venamartello	Ascoli P.	300.—	4 x 3,000 12,000		T. 1,500	1,800,000
3	Castel Trosino	Ascoli P.	118,90	3 x 2,240 6,720	3 67,400/ 5,000 2 34,500/ 5,000	T. 800	1,008,000
4	Matese 2	Benevento	354.—	2 x 4,000 8,000	3 10,000/ 60,000 4 60,000/ 80,000	T. 1,000	1,200,000
TOTALS				322,690		T. 35,300	48,403,500

All generating units 45 - 50 cycles.

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

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

ELECTRICITY, LIBERATED ITALY
TRANSMISSION SYSTEM REHABILITATION

E S T I M A T E

A. Estimated cost of rehabilitating 2,000 kilometers of high voltage transmission line at $ 7,000 per kilometer.

Rehabilitation of the following lines is contemplated:

First Priority (680 kilometers)

Avenza - Cascina
Bologna - Falconara
Bologna - Suviana
Cascina - Larderello
Larderello - Riccione
Livorno - S.Romano

Total estimated cost, first priority lines $ 4,760,000

Second Priority (730 kilometers)

Anversa - Prenestina
Archi - Pescara (Two lines one of which is partly repaired)
Cellole - Ceprano
Cotilia - Pescara III (already partly repaired)
Grosseto - Livorno
Larderello - Magliana (Via Civitavecchia)
Livorno - Rifredi
Pescara III - Pescara IV

Total estimated cost, second priority lines $ 5,110,000

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Third Priority (390 Kilometers)

Ceprano - Sezze
Fondi - Ceprano
Lete - Pescara II
Minturno - Fondi di Cozzo

Total estimated cost, third priority lines $ 2,730,000

Fourth Priority (200 Kilometers)

Scalea - Tusciano

Total estimated cost, fourth priority lines $ 1,400,000

Total estimated cost
Transmission lines . . . . . $ 14,000,000

B. High tension switching station equipment including transformer capacity and associated switch gear at $ 30 per KVA

First priority, 120,000 KVA of equipment..... $ 3,600,000

Second Priority, 50,000 KVA of equipment ..... $ 1,500,000

Third Priority, 30,000 KVA of equipment ..... $ 900,000

Total estimated cost High tension Switching Station Equipment . . . . . $ 6,000,000

GRAND TOTAL, TRANSMISSION SYSTEM $ 20,000,000

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

RECEIVED
P.W. & U. S.A.
26 JAN 1945 158

3

ENGINEER SECTION
A.F.H.Q.
C.M.F.
Tel No Freedom 818

SUBJECT :- Transformer for TAVARNUZZE. ENG/2005/3.

TO :- HQ Allied Commission.
(Public Works & Utilities Sub-commission). 23 Jan 45.

1. The 10,000 KVA Brown Boveri transformer at CASTELNUOVO DI SABBIONI is now repaired and dried out and arrangements were made with 1 District for its removal to TAVARNUZZE.

2. It will be necessary however to rebuild one bridge and make 200 yds of roadway in order to effect the move and the VALDARNO Coy have now produced an 8,000 KVA 60/30 KV transformer situated at LUCCA which will be suitable for TAVARNUZZE.

3. Will you please arrange with VALDARNO Coy for the movement of the LUCCA transformer to TAVARNUZZE, the original one at CASTELNUOVO -DI-SABBIONI remaining there for the present.

Prepared answer? 29/1/45 R.

A.W. PAGE,
Lieut Colonel RE,
for M.G.R.E.

Lt Col Gepper
Pls handle.
27/1

Copy to : 15 Army Gp for CE.
CG PBS (for attention Lt Col Cooley).
CE 1 District (ref CE 3034 dated 15 Jan 45).

9 refers

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

RECEIVED
P.W. & U. S/C A.C.
22 JAN 1945 158

RESTRICTED

RHF/wfb

ALLIED FORCE HEADQUARTERS
APO 512

18 January 1945

AG 675/047 GDS-O

SUBJECT: Conservation of Electric Power Facilities of Italian Utilities

TO : All Concerned

Letter, this headquarters, file AG 675/171 GDS-O, subject as above, dated 31 October 1944, is amended as follows:

a. Paragraph 2a (5) is rescinded and the following substituted therefor:

"(5) Other Military Facilities - Lighting of mess halls, kitchens, workshops, etc, should be the minimum commensurate with efficient working, and will in no case exceed 0.5 watts per square foot."

b. Paragraph 2b is rescinded and the following substituted therefor:

"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 treatment of patients.

(2) Only under exceptional circumstances will electric heating or cooking be allowed, other than in paragraph (1) above. Such exceptional usage will be only on express written authority of army commanders for army areas and AFHQ for area in rear of army rear boundaries".

By command of Field Marshal ALEXANDER:

583

R. H. F[illegible]
Captain, ACD,
Asst Adjutant General.

DISTRIBUTION:
10 - 15th Army Gp
50 - ALCOM
30 - MMIA
30 - Rome Area
30 - PBS
30 - Dist 2
30 - Dist 3
3 - Hq Comd AF
3 - AFLRS
2 - C/S MEDITA
3 - G-4 (A)
2 - G-4 (B)
2 - Engr
20 - D/W
2 - AG Records
1 - M & D

RESTRICTED

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

Pisa/5

LB/

HEADQUARTERS
ALLIED MILITARY GOVERNMENT
PISA PROVINCE

23 December 1944

SUBJECT : Power

TO : Toscana Region -Engineering Division

RECEIVED
P.W. & U. S/C A.C.
25 JAN 1945 158

I. Herewith report on Electric Plant of R. Ginori Co.

2. This plant is not likeley to be used for a considerable time and is available should it be needed.

G.J. BLAIR
Lt. The Royal Scots
Prov. Supply Officer

FORWARDED:
T.W.J. WALTERS
Lieut-Colonel
Prov. Commissioner

582

DCP

REPORT ABOUT THE VISIT OF THE ELECTRIC PLANT OF THE ESTABLISHMENT OF CERAMICA RICHARD GINORI COMPANY. VIA S. MICHELE DEGLI SCALZI PISA

-The [illegible] at 7200 Volt for the supply of the Establishment, derived from the principal line Cabins Politeama-Cabina Hospital of Cisanello- is much damaged.
-The principal transformation cabin has the entrance small tower of the conductors at high tension, and the room at the first floor, much damaged by shellings.
In the room of the transformers at ground floor there are:
N° 2 transformers Westinghouse, three-fase in oil, with 85 KW, ratio 7200 -4260/204 Volts, with two switches in oil.
N° 1 Siemens transformers, three-phase in oil, 10 KW. ratio 7200/195 Volt, 50 periods.
The table of low tension for the command of the plant of motor power and light of the Establishment is intact and in good conditions.
-The distribution plant at low tension in the Establishment can be repaired easily in the large huts undamaged by the war.
On the contrary that in the damaged rooms is almoust completely destroyed.
- In the department of the retorts the transformation cabin is almoust destroyed and the electric tools much damaged; there is:
N° I transformers three-phase in oil, type Scotti Brioschi, 137 KW with ratio 7500-7100-7200/190 Volt and having 2 "passanti at low tension much broken and 1 "passante" at high tension broken only at the basis.
The command table at low tension of the retorts, is in good conditions. There is not the settling self-transformers.
-In the various departments there are: 1) In the mechanical work-shop:
N° I max three-phase motor with 3,8 HP Volt 190
N° I three-phase motor, ~~[illegible]~~ but 1,5 HP for the functioning of the wind-valve of the iron mill.
Some damaged motors that cannot work, have been amassed in this work-shop.
2) In the room of the water well:
N° 1 three-phase motor 10 HP-Volt 190 for the functioning ~~[illegible]~~ of the pump for the raising of the water.
3) In the mill-stones rooms:
N° 1 three-phase motor "Marelli" 10 HP for the functioning of the mineral mill-stones.
N° I three phase motor 40 HP
N° 1 motor of very old type Gadda & C. Volt 150-Amperes 30
N° I three phase Marelli 75 HP Volt 190

581

Pisa 21st of December 1944.

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