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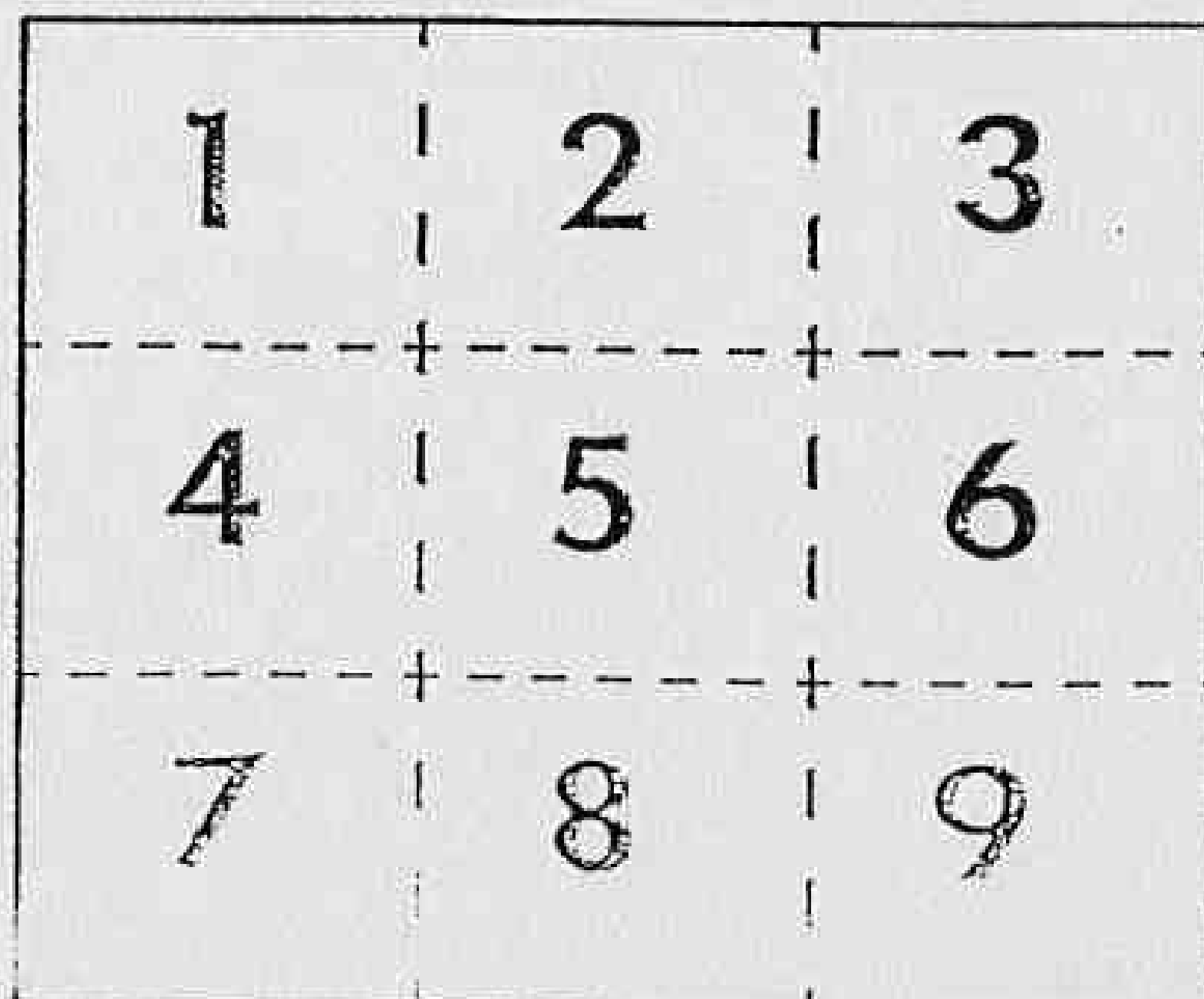
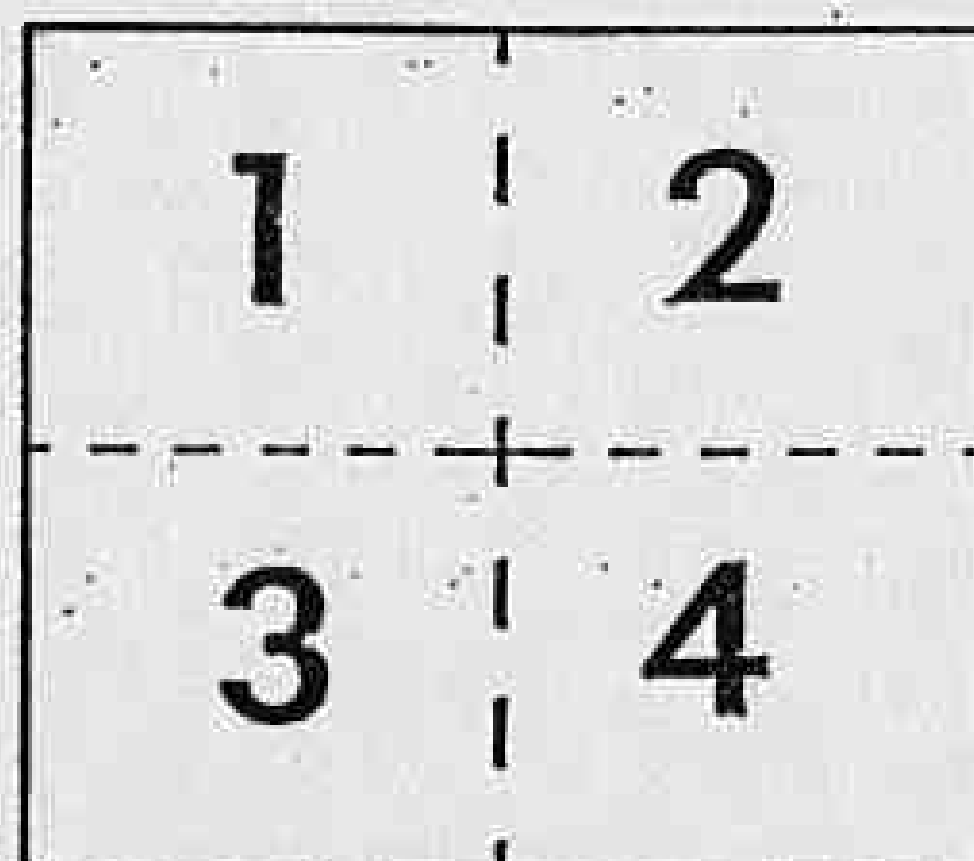
34.4- Electric Power  
JANUARY - April 1944

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Declassified E.O. 12356 Section 3.3/NND No. 785016

VOLUME TIGHTLY BOUND -  
BEST COPY POSSIBLE

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.



1549

Declassified E.O. 12356 Section 3.3/NND No. 785016

SOCIETÀ MERIDIONALE

DI

ELETTRICITÀ

3950

SECOND REPORT  
ON THE POSSIBILITY OF SUPPLYING ENERGY TO  
ROME

1550

Declassified E.O. 12356 Section 3.3/NND No. 725016

3950

SECOND REPORT  
ON THE POSSIBILITY OF SUPPLYING ENERGY TO  
ROME

34.4

1044

1-18

2° REPORT ON THE POSSIBILITY OF SUPPLYING ENERGY TO ROME

The purpose of this second report is to give further data on:

- I) the requirements necessary to repair transmission lines to Rome and on stocks at present held by SMV and suitability of employment in the works.
- II) the disponibility of power and energy and customers demand.

- I -

List of materials for repair works

For the sections of SME transmission lines already patrolled the estimate of requirements can be made with sufficient approximation; for the other sections we have been advised of supposing half length totally destroyed and half with damaged conductors (only joints are needed). There are also lines belonging to other Companies or State Railways and upon which we have no data or incomplete ones about type of towers, conductors and lengths. In spite of that, we have tried to give some rough estimates also upon these lines, and we have supposed them half destroyed and half with damaged conductors as they are all in areas which cannot be patrolled.

In the annex 1 are plotted all the above estimates.

We point out:

- I -

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In the annex 1 are plotted all the above estimates.

We point out:

The hypothesis of half length of some line sections destroyed is perhaps too severe as regards to the towers and steel cored aluminium conductors.

Towers could be manufactured partly or thoroughly in Naples, Torre and Apulia, according with required number and construction times. It could be inquired about present existence of raw materials and construction times: SME could furnish a list of the most important

shops of raw materials and manufacturers.

In Southern Italy there is no factory for wire drawing of steel co red aluminium or steel ground wire. On account of that there is no possibility of manufacturing such conductors also if raw materials were available. In Naples there was a manufacturer (Corradini) of copper conductors. The factory has been mined and we have no informations about time and possibility of restoring it.

All the joints were bought in Northern Italy. But for our present repair works we are employing joints built in Naples or Bari. We estimate that all the necessary joints can be manufactured in the country with existing raw materials except for tin and, perhaps, zinc (we have no data about zinc stocks in the factory of Fertuso-la in Crotone).

Clamps and fittings were bought in Northern Italy. We estimate that possibility of manufacturing them in the South is only a question of time (on account also of technological difficulties).

In Southern Italy there is no manufactory of insulators.

We estimate very difficult to find linseed oil for varnishes in the country. Red lead can, perhaps, be obtained from Sardinia.

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#### List of stocks for repair works

Stocks of material for line works were limited to the want of usual maintenance (some towers, joints, few kilometers for every type of conductors, some thousands of insulators, etc.). On account of that we could only employ, partially or totally, for these works (see annex 2):

Some conductors stored for two displacements of lines planned but not executed.

Materials of damaged SNE lines that could be demolished without interfering very much with the necessity of operation of our system (white and red Matese-Fratte).

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Materials of damaged Volturno line. We have estimated that three of the six existing wires of the 60 kV Volturno line could be, perhaps, dismantled if necessary. This matter needs, evidently, further investigation with Volturno Co.

We point out:

Red and white Matese-Fratta lines are equipped with pin type insulators. Employment of these towers with suspension insulators would, at least, require a change of cross-arms.

Skilled men needed for repair works

In order to give a rough idea about the number of men necessary for these types of works we point that:

For repairing conductors upon 1 km are needed not less than 50-100 men x days ( $2/5$  skilled -  $3/5$  unskilled) according to conditions, weather, etc. These data are based on the experience made on the 60 kV lines Tuscianno-Fratta-Matese. They can be considered suitable for the 60 kV lines Fratta-Liri and 80 kV lines Matese-Pescara. For the section between Foggia and Vasto of the 150 kV line Foggia-Pescara we estimate a time considerably shorter (15 to 30 men x days).

For repairing and reerecting a mined tower on the 60 kV line Fratta-Liri are needed not less than 15-25 skilled men x days. This estimate is based on the hypothesis that one or two sections of the mined towers are built with other workmen in a factory. On the place is made

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For repairing and reerecting a mined tower on the 60 kV line Fratta-Liri are needed not less than 15-25 skilled men x days. This estimate is based on the hypothesis that one or two sections of the mined towers are built with other workmen in a factory. On the place is made the repair work of the remaining sections, their connection with the new ones, and the reerecting of the complete towers. As we have on the patrolled section (230 towers, 42 km) about 23 mined towers and 6 damaged, we can estimate an average requirement of 10-15 men x days for km. For the 60 kV green line Fratta-Matese, the patrolled section of the 80 kV lines Matese-Pescara, and 150 kV Foggia-Pescara we estimate a time considerably shorter (3 to 4 men x days/km). For the work of erecting new towers on the sections supposed completely destroyed we estimate between 50 and 75 men x days/km.

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For the repair of mined concrete foundations we estimate about 10 to 15 men x days/km.

Skilled men available for repair works

SME had skilled linemen only for usual maintenance purposes (scattered in various places along transmission lines). For repair works on the 60 kV lines Tusciaco-Fratta we have gathered the Sila-Bari, Tusciaco-Fratta and Naples crews (about 45 skilled men). The Sila and Bari crews must now return back, but we shall have available two Matrese crews (total skilled men about 40 - total skilled and unskilled about 100).

About possibility of hiring men from contractors it must be pointed out that firms for construction of new lines were all of Northern Italy. In our districts there were only some crews hired time by time for small works (displacements, etc.) on our lines. We have tried to find these crews but only in the last weeks we have had news that one of them is working near Taranto. In every case we do not estimate that it will be possible to gather more than 10-20 other skilled men (total on the works 20 to 40).

For tower works the Ilva Co. has already equipped a crew of 8-10 skilled men for the repair of the 60 kV line Fratta-Liri. This crew is on the work from the 27<sup>th</sup> of December and will end it about the 15<sup>th</sup> of February. We estimate that it will be possible to find other skilled men for these works in order to raise the number up to 20-25.

Skilled men for preparing and pouring concrete will be easily found.

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#### Transportations and others

For every 100 men x days we estimate an average requirement of about 7 lorries x day + 1 car x day (6 lorries of 1.5 - 2 Tons - 1 lorry of 1 Ton - 1 usual car).

We have lost almost all the lorries and cars displaced in the plants and along transmission lines. It is now very difficult to hire lorries.

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The few ones that we fixed, are in very bad conditions. The repair works on the Tusciano-Pratta lines have been delayed for this reason. In the last weeks we have been helped by lorries of the Army. For future works we estimate that this help will be necessary in order to utilize in the best manner employed men.

For the Tusciano-Pratta works we have organized board and lodging for our workmen. Considerable difficulties have been found for the food. We estimate that in winter and in some districts crossed by lines to Rome these difficulties will be very hard and we must then point out.

- II -

#### Maximum output in MW

Sila plants supply two different systems: one at 60 kV, the other at 150 kV. For the purposes of this report we shall consider only the 150 kV system. This system is supplied by 90 MVA of transformers installed in the 2<sup>nd</sup> stage (Timpagrande). At 0.9 power factor we should have a maximum output of about 80 MW (datum exposed in the previous report of 11<sup>th</sup> of November 1943). For short time winter peak load we could overload the transformers up to 90 MW.

The average winter output of Tusciano and Tanagro is about 16 MW (and will be available in few days with the repair of the second penstock of Tusciano).

- II -

Maximum output in MW

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The average winter output of Tusciiano and Tanagro is about 16 MW (and will be available in few days with the repair of the second penstock of Tusciiano).

In the first stage of Matese we have a first unit of 5 MW (not in perfect conditions on account of a bending of the shaft) and we shall have in the next months (after repair works) a second unit of 5 MW. Matese plant has water for about 2500 hours/year of operation at full load.

The winter output at peak load can be then estimated (with all units in service) at about 116 MW.

In summer the maximum output at peak load can be estimated at about 101 MW (80 MW from Sila - 11 from Tusciiano and Tanagro - 10 from Matese).

Maximum demand in MW

We have had for some days during the last weeks about 106 MW of peak load, of which 10 MW for the Calabria 60 kV system. We shall consider only the 96 MW to Naples and Apulia.

As already known, we have not yet energized, partly or totally, some large areas. We estimate:

other 10 MW (11,5 MW in the plants) for Naples  
(for new supplies and for better voltage)

other 18 (21 MW in the plants) for Campania Co.  
(for new supplies and for better voltage: about 4  
between Salerno and Castellammare - 2 Pomigliano -  
3 Fratta - 3 S.Maria - 3 Benevento - 1 Campobasso -  
2 Calore)

other 10 (11,5 MW in the plants) for SAE direct customers  
(of which about 4 for Gava S.R.Sub. - 1 for growth  
of load in Poggio S.R.Sub. - 5 for various loads)

The total winter peak load demand can be then estimated at 140 MW.  
Accordingly with our usual rate of changes in the various months,  
we estimate a minimum peak load demand of 120 MW in June.

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2 Calore)

other 10 (11,5 MW in the plants) for SNE direct customers  
(of which about 4 for Cava S.R.Sub. - 1 for growth  
of load in Poggio S.R.Sub. - 5 for various loads)

The total winter peak load demand can be then estimated at 140 MW.

Accordingly with our usual rate of changes in the various months,  
we estimate a minimum peak load demand of 120 MW in June.

#### Influence of the various users on the peak load demand

In the annex 3 are represented the average diagrams of the demand  
in the last week of december 1943 for the various areas and for the whole  
SNE system. We have been requested to prepare a list of present users in  
order to show how the demand of the various areas can be split.

#### Apulia

Apulia has about 450.000 customers. We control the consumptions of  
these customers only in kWh and obtain these data with a delay of 1-2

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months. Only for few big customers we control the demand in kW. For a quick estimate we have then taken the consumptions in kWh of the 1942, with a suitable correction factor (load is increased in Apulia of an average of about 10%). We have classed the users in five essential categories (illegitimate - residential uses - railways - flour mills, water pumps, etc. - mechanical and others), and, accordingly with usual load factor and shape of diagram, we have obtained the demand in kW of the annex 4 for the above 5 categories. We point out that all demands are inclusive of transmission and distribution losses as we have split the output of the Sila plants. Losses vary for the different users between 20 and 30%. More detailed inquiries could also be done but for middle and little customers we should always proceed from the kWh consumptions to the kW demand as above said.

#### Naples Distribution + Volturno

Naples Distribution and Volturno must be considered as new distribution systems in a phase of rapid growth of number of customers and consumptions. Once they had about 265.000 customers. The present number of customers and their single consumptions will be obtained with a delay of 1-2 months as there is no possibility of exact reference with 1942 data. In these conditions, we have firstly gathered data about the demand of some more important customers and we have then tried to estimate the demand of middle and little users with some hypothesis and some detailed inquiries upon loads of the various 9 kV cables, change of their power factor, etc. As a result of the above inquiries, we have shown in the annex 5 the estimated demands of the 5 essential categories of customers.

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#### Campania Co.

Campania Co. has now partly energized the districts of Salerno, Torre and Caserta. Five other districts are almost totally without supply of energy. The Company had once about 385,000 customers. As for data

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about present customers and consumptions they are in the same conditions of Naples Distribution. We have then estimated the demand of the 5 categories of users as for Naples Distribution (see annex 6). Demand has been estimated on the output from Tusciano on the 30 kV line to Torre. Customers' demands are then affected by distribution and transmission losses on the 30 kV line.

In the last days Campania Co. has begun to shift loads during night hours through agreements with some categories of users (flour mills - cotton manufactories).

Naples, the 2<sup>nd</sup> January 1941

| LINES                                    | Sections           |                     | Tow            |                    |
|------------------------------------------|--------------------|---------------------|----------------|--------------------|
|                                          | first *            | Second *            | lengths<br>km. | angle bars<br>tons |
| FRATTA-MINTURNO (white & red) 60kV.      | Fratta-Carinola    | —                   | 418            | 36-                |
| MINTURNO-SEZZE-ROME (S.R.R.) 120 kV.     | —                  | Carinola-Minturno   | 146            | 80-                |
| FONDI-CEPRANO-ROME (S.R.R.) 120 kV.      | —                  | Minturno-Rome       | 138.1          | 680-               |
| FRATTA-MATESE (green) 60 kV.             | —                  | Fondi-Rome          | 138.3          | 680-               |
| MATESE-SULMONA (white & red) 88 kV.      | Fratta-Matese      | —                   | 486            | 8-                 |
| SULMONA-ANVERSA-ROME (S.R.R.) 88 & 60kV. | Matese Colli al V. | —                   | 2x45.5         | 26-                |
| FRATTA-DESCARA 150 kV.                   | —                  | Colli al V.-Sulmona | 2x65.7         | 230-               |
| DESCARA-GALLETO (Terni Co.) 150kV        | —                  | Sulmona-Rome        | 134.1          | 500-               |
|                                          | Fratta-Colli al V. | —                   | 52.8           | 72-                |
|                                          | —                  | Colli al V.-Pescara | 134.3          | 930-               |
|                                          | —                  | Pescara-Galletto    | 108-           | 102-               |

|                                        |                    |                       |        |        |
|----------------------------------------|--------------------|-----------------------|--------|--------|
| MINTURNO-SEZZE-ROME (SRR) 120 kv.      | —                  | Minturno - Rome       | 138.1  | 680.-  |
| FONDI-CEPRANO-ROME (SRR) 120 kv.       | —                  | Fondi - Rome          | 138.3  | 680.-  |
| FRATTA-MATESE (Green) 60 kv.           | Fratta - Matese    | —                     | 49.6   | 8.-    |
| MATESE-SULMONA (white & red) 88 kv.    | Matese Colli al V. | —                     | 244.5  | 26.-   |
| SULMONA-ANVERSA-ROME (SRR) 88 & 60 kv. | —                  | Colli al V. - Sulmona | 243.7  | 230.-  |
| FRATTA-PESCARA 150 kv.                 | Fratta-Colli al V. | Sulmona - Rome        | 134.4  | 540.-  |
| PESCARA-GALLETTO (Terni Co) 150 kv.    | —                  | Colli al V. - Pescara | 52.8   | 72.-   |
| GALLETTO-ROME (Romana Co) 150 kv.      | —                  | Pescara - Galletto    | 134.3  | 930.-  |
| FOGGIA-PESCARA 150 kv.                 | Foggia - Archi     | —                     | 108.-  | 102.-  |
|                                        |                    | Galletto - Rome       | 98.-   | 98.-   |
|                                        |                    | Archi - Pescara       | 132.8  | 6.-    |
|                                        |                    | Totals                | 36.4   | 264.-  |
|                                        |                    |                       | 1921.2 | 3772.- |

\* patrolled sections      \*\* unpatrolled se

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| Towers     |                    | Line conductors  |                                |                       |             |           |       | Ground wires |             |                           |           |        |       |
|------------|--------------------|------------------|--------------------------------|-----------------------|-------------|-----------|-------|--------------|-------------|---------------------------|-----------|--------|-------|
| angle bars | cement foundations | cross sect.      | strands                        | diameters             | copper      | aluminium | steel | zinc         | cross sect. | strands                   | diameters | copper | steel |
| tons       | tons               | sq mm            | —                              | mm.                   | tons        | tons      | tons  | tons         | sq mm.      | —                         | mm.       | tons   | tons  |
| 36.-       | 13.-               | 49.43            | 7x3 Cu                         | 9.-                   | 6.-         | —         | —     | —            | 32.01       | { 11x4 Cu +<br>11x1.5 st  | 7.-       | 0.2    | 0     |
| 60.-       | 32.-               |                  |                                | 9.-                   | 26.-        | —         | —     | —            |             |                           |           | 1.1    | 1     |
| 680.-      | 110.-              | 222.23           | { 26x3.06 al +<br>7x2.38 st    | 17.-                  | —           | 110.-     | 27.-  | 1.2          | 49.43       | 7x3 st.                   | 9.-       | —      | 27    |
| 680.-      | 110.-              | 222.23           | { 26x3.06 al +<br>7x2.38 st    | 17.-                  | —           | 110.-     | 27.-  | 1.2          | 49.43       | 7x3 st.                   | 9.-       | —      | 27    |
| 8.-        | 3.-                | 98.98            | { 2x7x3 Cu<br>R.<br>2x8 Cu     | 14.8<br>dia &<br>13.1 | 5.-         | —         | —     | —            | 36.48       | 1x7 st.                   | 7.-       | —      | 0     |
| 26.-       | 3.-                | { 68.98<br>62.44 | { 19x2.45 Cu<br>2x8 Cu         | 10.75<br>10.15        | 9.-<br>20.- | —         | —     | —            | various     | various                   | various   | 0.5    | 1     |
| 230.-      | 150.-              |                  |                                |                       |             | —         | —     | —            |             |                           |           | 0.4    | 14    |
| 500.-      | 150.-              | 78.54            | 1x10 Cu                        | 10.-                  | 280.-       | —         | —     | —            | 50.49       | 1x8.7                     | 8.7       | —      | 31.   |
| 72.-       | —                  |                  |                                |                       |             | —         | —     | —            |             |                           |           |        |       |
| 930.-      | 120                | 155.2            | Anaconda<br>(2x3.0 + 11x1.6 Cu | 19.5                  | 20.-        | —         | —     | —            | 58.20       | { 11x6 Cu +<br>14x1.65 st | 9.3       | 1.4    | 1     |
|            |                    |                  |                                |                       | 280.-       | —         | —     | —            |             |                           |           | 17.-   | 16    |

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|       |       |                 |                           |                      |      |      |     |       |                             |         |                 |
|-------|-------|-----------------|---------------------------|----------------------|------|------|-----|-------|-----------------------------|---------|-----------------|
| 80-   | 32-   |                 | 9-                        | 26-                  | -    | -    | -   | 52.01 | 11x15 st                    | 1.1     | 1               |
| 680-  | 110-  | 222.23          | (26x3.06 al + 7x2.38 st)  | 17-                  | -    | 110- | 27- | 1.2   | 49.43 7x3 st                | 9-      | 27              |
| 680-  | 110-  | 222.23          | (26x3.06 al + 7x2.38 st)  | 17-                  | -    | 110- | 27- | 1.2   | 49.43 7x3 st                | 9-      | 27              |
| 8-    | 3-    | 98.96           | (2x7x3 cu & 2x5 cu)       | 14.8<br>0.50<br>13.1 | 5-   | -    | -   | -     | 38.46 1x7 st                | 7-      | 0               |
| 26-   | 3-    | 68.98<br>(62.44 | (19x2x5 cu & 7x6.57 cu)   | 10.75<br>10.11       | 9-   | -    | -   | -     | various                     | various | 0.5<br>0.4<br>1 |
| 290-  | 150-  |                 |                           | 20-                  | 20-  | -    | -   | -     |                             |         | 14              |
| 500-  | 150-  | 79.54           | 1x10 cu                   | 10-                  | 280- | -    | -   | -     | 50.49 1x8.7                 | 8.7     | 31              |
| 72-   | -     | 188.2           | Anacorda<br>0.39x1.7x1 cu | 10.5                 | 23-  | -    | -   | -     | 58.00 { 1x6 cu + 14x1.65 st | 9.3     | 1               |
| 930-  | 120   |                 |                           | 250-                 | 250- | -    | -   | -     |                             |         | 16              |
| 102-  | 43-   | 193.69          | (26x2.85 al + 7x2.25 st)  | 18.19                | -    | 98-  | 43- | 2-    | -                           | -       | -               |
| 95-   | 33-   | 193.69          | (26x2.85 al + 7x2.25 st)  | 18.19                | -    | 68-  | 33- | 1.5   | 49.43 7x3 st                | 9-      | 10              |
| 6-    | 1-    | 277.74          | (26x3.42 al + 7x2.66 st)  | 21.60                | -    | 2-   | 1-  | 0.1   | 49.43 7x3 st                | 9-      | 0               |
| 264-  | 238-  |                 |                           | -                    | -    | 36-  | 17- | 0.8   |                             |         | 7               |
| 3772- | 1006- | -               | -                         | 646-                 | 414- | 148- | 6.8 | -     | -                           | 20.6    | 140             |

ed sections \*\*\* 1 Ton = 1000 kg. \*\*\* for line conductors & ground wires

Annex 1

| wires  | Joints... |      |          |      |        |      | Clamps & fittings... |                | insulators |       | varnish |
|--------|-----------|------|----------|------|--------|------|----------------------|----------------|------------|-------|---------|
|        | steel     | zinc | aluminum | iron | copper | tin  | zinc                 | malleable iron | zinc       | No.   | tons    |
| copper | tons      | tons | tons     | tons | tons   | tons | tons                 | tons           | tons       | tons  | tons    |
| 0.2    | 0.3       | 0.04 | -        | 0.1  | 0.9    | 0.15 | 0.25                 | 0.7            | 0.10       | 1200  | 0.5     |
| 1.1    | 1.4       | 0.06 | -        | 0.1  | 0.4    | 0.05 | 0.10                 | 4.1            | 0.50       | 2500  | -       |
| -      | 27-       | 1.23 | 1.5      | 0.3  | -      | -    | 0.01                 | 19.9           | 2.30       | 11600 | 8.8     |
| -      | 27-       | 1.23 | 1.5      | 0.3  | -      | -    | 0.01                 | 19.8           | 2.30       | 11600 | 9.8     |
| -      | 0.6       | 0.03 | -        | 0.2  | 0.5    | 0.07 | 0.12                 | 0.9            | 0.10       | 400   | 0.1     |
| 0.5    | 1.2       | 0.05 | -        | 0.3  | 0.6    | 0.10 | 0.15                 | 0.6            | 0.06       | 1400  | 0.3     |
| 0.4    | 1.4-      | 0.55 | -        | 1.5  | 0.5    | 0.08 | 0.15                 | 1.2            | 0.12       | 9000  | 2.3     |
| -      | 31-       | 1.41 | -        | 3-   | 1.2    | 0.17 | 0.30                 | 27-            | 3-         | 17000 | 5.6     |
| 1.4    | 1.2       | 0.06 | -        | 0.1  | 1.3    | 0.10 | 0.20                 | 0.3            | 0.03       | 500   | 0.8     |
| 17-    | 16-       | 0.73 | -        | 0.1  | 1.2    | 0.15 | 0.30                 | 10.6           | 1.10       | 17000 | 10-     |

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|      |       |      |     |     |     |      |      |      |       |       |      |
|------|-------|------|-----|-----|-----|------|------|------|-------|-------|------|
| 1.1  | 1.4   | 0.06 | -   | 0.1 | 0.4 | 0.09 | 0.10 | 4.1  | 0.50  | 2500  | 1.-  |
| -    | 27-   | 1.23 | 1.5 | 0.3 | -   | -    | 0.01 | 19.8 | 2.30  | 11600 | 8.8  |
| -    | 27-   | 1.23 | 1.5 | 0.3 | -   | -    | 0.01 | 19.8 | 2.30  | 11600 | 8.8  |
| -    | 0.6   | 0.03 | -   | 0.2 | 0.5 | 0.07 | 0.12 | 0.9  | 0.06  | 400   | 0.1  |
| 0.5  | 1.2   | 0.05 | -   | 0.3 | 0.6 | 0.10 | 0.15 | 0.6  | 0.06  | 1400  | 0.3  |
| 0.4  | 14.-  | 0.55 | -   | 1.5 | 0.5 | 0.08 | 0.15 | 1.2  | 0.12  | 4000  | 2.3  |
| -    | 31.-  | 3.41 | -   | 3.- | 1.2 | 0.17 | 0.30 | 27-  | 9.-   | 17000 | 5.6  |
| 1.4  | 1.2   | 0.06 | -   | 0.1 | 1.3 | 0.10 | 0.20 | 0.3  | 0.03  | 500   | 0.8  |
| 17.- | 16.-  | 0.79 | -   | 0.1 | 1.2 | 0.15 | 0.50 | 10.6 | 1.16  | 17000 | 40.- |
| -    | -     | -    | 1.4 | 0.2 | -   | -    | 0.01 | 18.1 | 2.10  | 12300 | 1.-  |
| -    | 19.6  | 0.89 | 1.- | 0.2 | -   | -    | 0.01 | 17.4 | 2.40  | 10300 | 1.-  |
| -    | 0.5   | 0.25 | 1.- | 0.1 | -   | -    | 0.03 | 0.9  | 0.10  | 400   | 0.1  |
| -    | 7.-   | 0.32 | 0.5 | 0.1 | -   | -    | 0.01 | 2.2  | 0.25  | 4200  | 2.6  |
| 20.6 | 140.8 | 6.82 | 6.9 | 6.6 | 6.6 | 0.87 | 1.65 | 98.9 | 15.46 | 99400 | 42.9 |

wires

| STORES<br>OR<br>LINES                                                            | lengths<br>Km. | Angle bars<br>for towers | Line conductors |                          |           |        |          |
|----------------------------------------------------------------------------------|----------------|--------------------------|-----------------|--------------------------|-----------|--------|----------|
|                                                                                  |                |                          | cross sect      | strands                  | diameters | copper | aluminum |
|                                                                                  |                | long                     | sq. mm.         | —                        | mm.       | long   | long     |
| FRATTA-MATESE (white & red) 60 kV.<br><br>VOLTURNO LINE 60 kV.<br><br>SME STORES | 48.6           | 550                      | 62.44           | 7x3.37                   | 10.4      | 150.   | —        |
|                                                                                  | 80.-           | —                        | 49.48           | 7x3                      | 9.-       | 107.-  | —        |
|                                                                                  | 19.-           | —                        | 277.77          | 26x3.42 al+<br>7x2.66 st | —         | —      | 12.6     |
|                                                                                  | 3.-            | —                        | 165.84          | 26x2.67 al+<br>7x1.92 st | 16.44     | —      | 1.6      |
|                                                                                  | 5.-            | —                        | 134.15          | 26x2.33 al+<br>7x2.18 st | 11.44     | —      | 1.5      |
|                                                                                  | 1.5            | —                        | —               | —                        | —         | —      | —        |
|                                                                                  | 10             | —                        | —               | —                        | —         | —      | —        |
|                                                                                  | 7              | —                        | —               | —                        | —         | —      | —        |

| STORES<br>OR<br>LINES                                                  | lengths |      | Angle bars<br>for towers |                           | cross sect |       | strands |   | diameters |      | copper |   | aluminum |      |
|------------------------------------------------------------------------|---------|------|--------------------------|---------------------------|------------|-------|---------|---|-----------|------|--------|---|----------|------|
|                                                                        | Km.     | long | sq. mm.                  | —                         | mm.        | long  | tons    | — | mm.       | long | tons   | — | mm.      | long |
| FRATTA-MATESE (white & red) 60kV<br>VOLTURNO LINE 60 kV.<br>SME STORES | 48.6    | 550  | 62.44                    | 7x3.37                    | 10.4       | 150.- | -       |   |           |      |        |   |          |      |
|                                                                        | 80.-    | -    | 49.48                    | 7x3                       | 9.-        | 107.- | -       |   |           |      |        |   |          |      |
|                                                                        | 19.-    | -    | 277.77                   | 26x3.42 al +<br>7x2.66 st | -          | -     | 12.6    |   |           |      |        |   |          |      |
|                                                                        | 3.-     | -    | 165.84                   | 26x2.67 al +<br>7x1.92 st | 16.44      | -     | 1.6     |   |           |      |        |   |          |      |
|                                                                        | 5.-     | -    | 134.15                   | 26x2.3 al +<br>7x2.18 st  | 11.14      | -     | 1.5     |   |           |      |        |   |          |      |
|                                                                        | 1.5     | -    | -                        | -                         | -          | -     | -       |   |           |      |        |   |          |      |
|                                                                        | 10      | -    | -                        | -                         | -          | -     | -       |   |           |      |        |   |          |      |
|                                                                        | 7       | -    | -                        | -                         | -          | -     | -       |   |           |      |        |   |          |      |
|                                                                        | *       | 33   | 125.50                   | 19x2.9 cu                 | 14.5       | 15.-  | -       |   |           |      |        |   |          |      |
|                                                                        | **      | -    | 116.99                   | 14x2.6 cu                 | 14.-       | 6.-   | -       |   |           |      |        |   |          |      |
| Totals                                                                 | 174.1   | 583  |                          |                           |            | 278.- | 15.7    |   |           |      |        |   |          |      |

\* to be dismantled from a displaced sec  
\*\* partly dismantled from a section of li



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| cop   | alumin | steel | zinc | cross | stroke                | diameter | cop  | steel | tons | tons | N°   | tons | N°   | tons |
|-------|--------|-------|------|-------|-----------------------|----------|------|-------|------|------|------|------|------|------|
| 150.- | -      | -     | -    | 58.20 | 1x4 cut<br>11x1.5 s!  | 7.-      | 12.7 | 11.6  | -    | -    | 3000 | -    | -    | -    |
| 107.- | -      | -     | -    | -     | -                     | -        | -    | -     | -    | -    | -    | 9000 | -    | -    |
| -     | 12.6   | 5.9   | ~    | -     | -                     | -        | -    | -     | -    | -    | -    | -    | -    | -    |
| -     | 1.6    | 0.5   | ~    | -     | -                     | -        | -    | -     | -    | -    | -    | -    | -    | -    |
| -     | 1.5    | 1.-   | ~    | -     | -                     | -        | -    | -     | -    | -    | -    | -    | -    | -    |
| -     | -      | -     | -    | 49.48 | 7x3.-                 | 9        | -    | 0.5   | ~    | -    | -    | -    | -    | -    |
| -     | -      | -     | -    | 43.-  | 7x2.38                | 7.14     | -    | 3.5   | ~    | -    | -    | -    | -    | -    |
| -     | -      | -     | -    | 51.99 | 7x2.-                 | 6        | -    | 1.2   | ~    | -    | -    | -    | -    | -    |
| 15.-  | -      | -     | -    | 58.10 | 1x6 cut<br>14x1.65 s! | 9.3      | 1.-  | 1.2   | -    | -    | -    | 400  | -    | -    |
| 6.-   | -      | -     | -    | -     | -                     | -        | -    | -     | -    | -    | -    | 230  | -    | -    |
| 278.- | 15.7   | 7.4   | -    | -     | -                     | -        | -    | -     | -    | -    | -    | 9630 | 3000 | -    |

placed section  
section of line out of service

1576

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# SME AVERAGE WORK DAY DEMAND OF THE LAST WEEK OF

MW

100

95

90

85

80

75

70

65

60

55

50

45

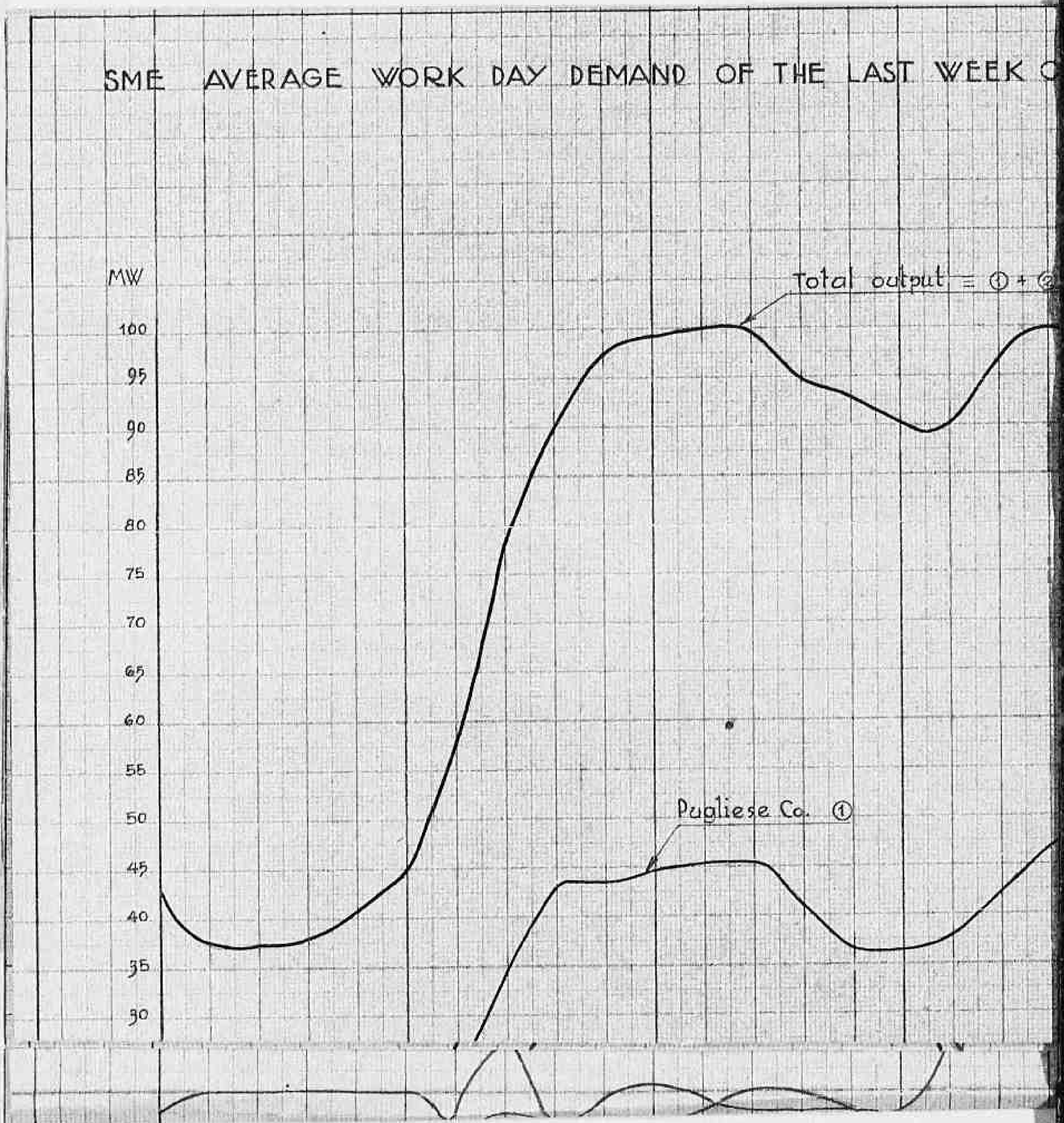
40

35

30

Total output = ① + ②

Pugliese Co. ①



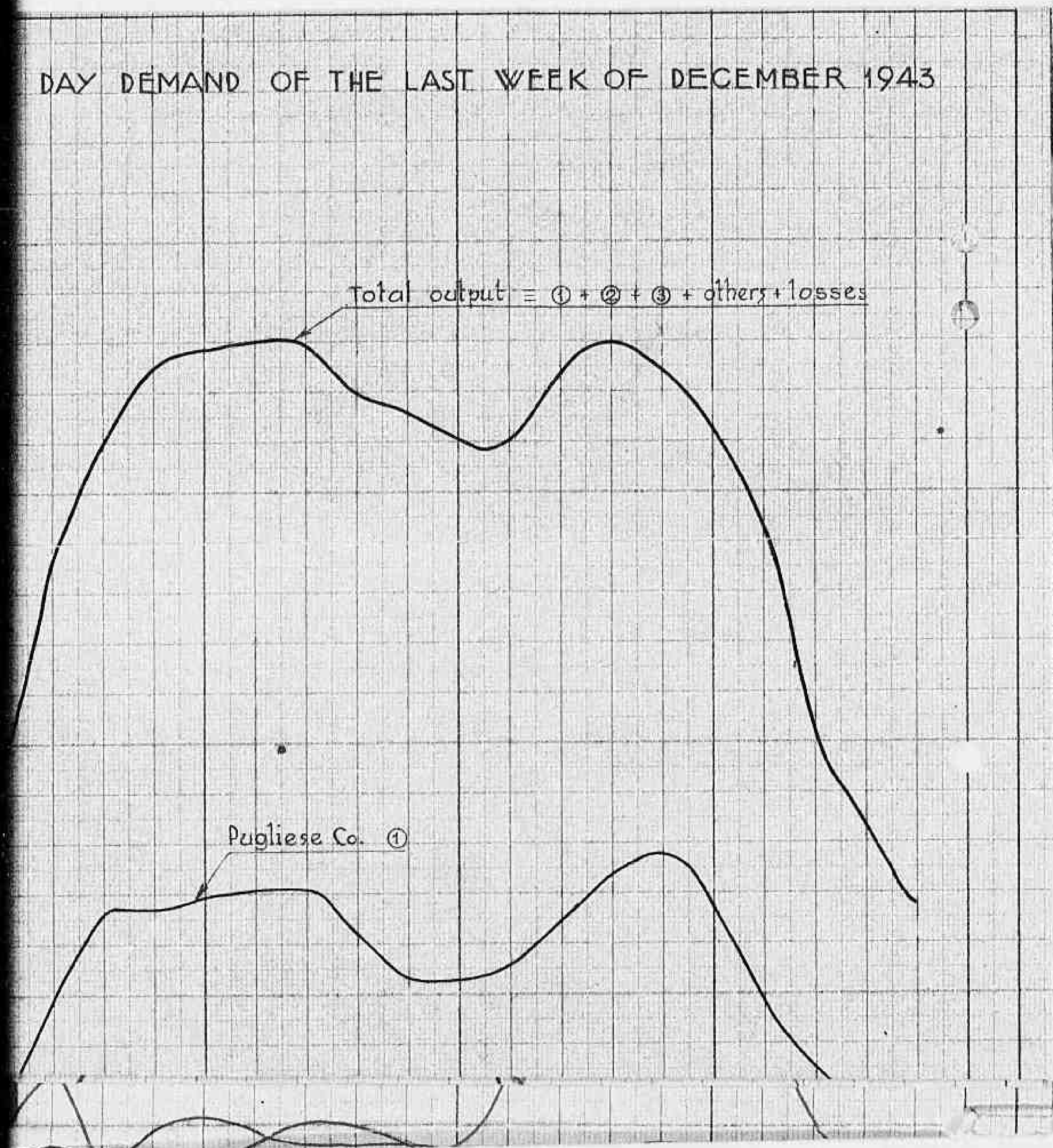
1577

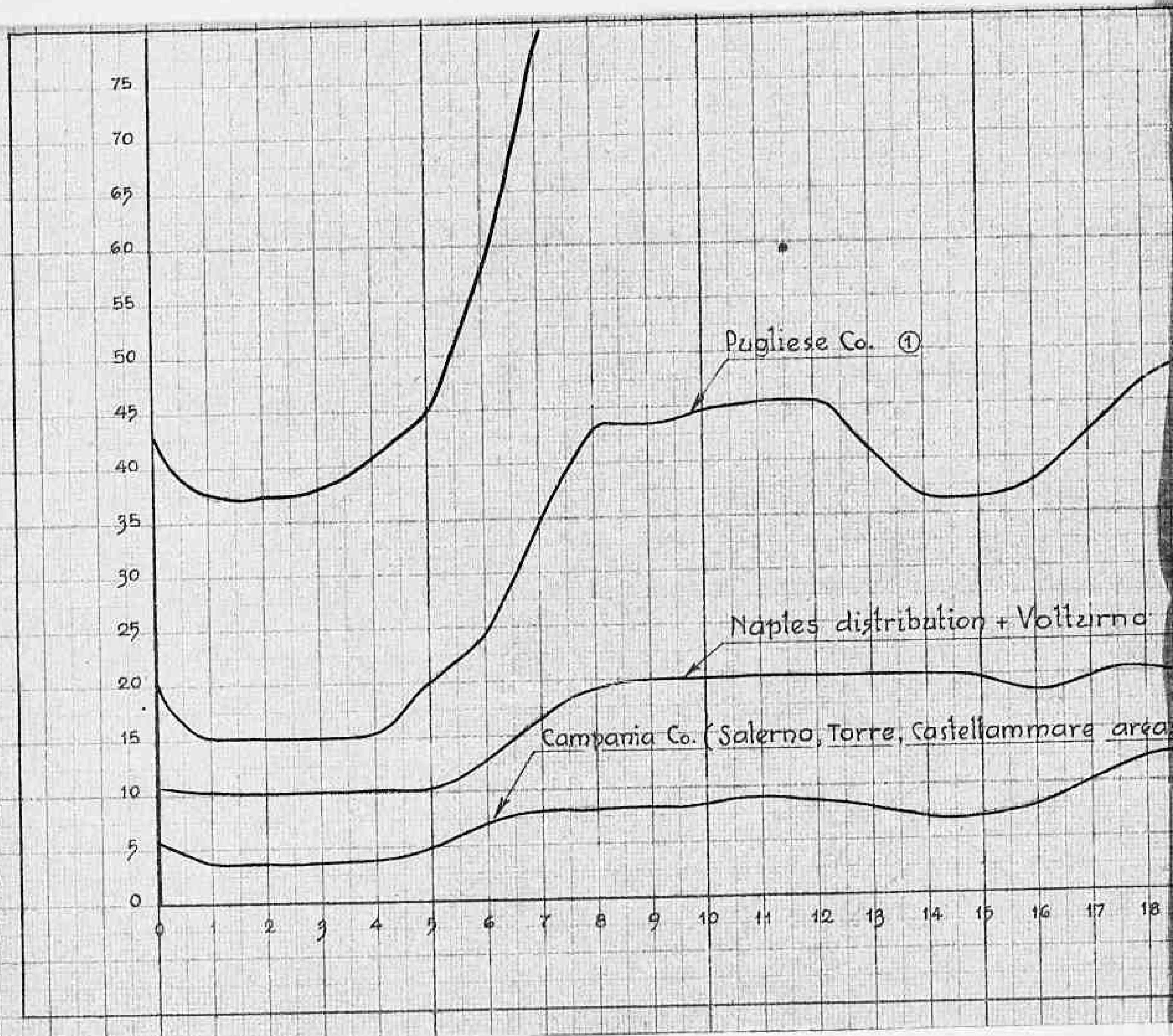
Declassified E.O. 12356 Section 3.3/NND No. 785016

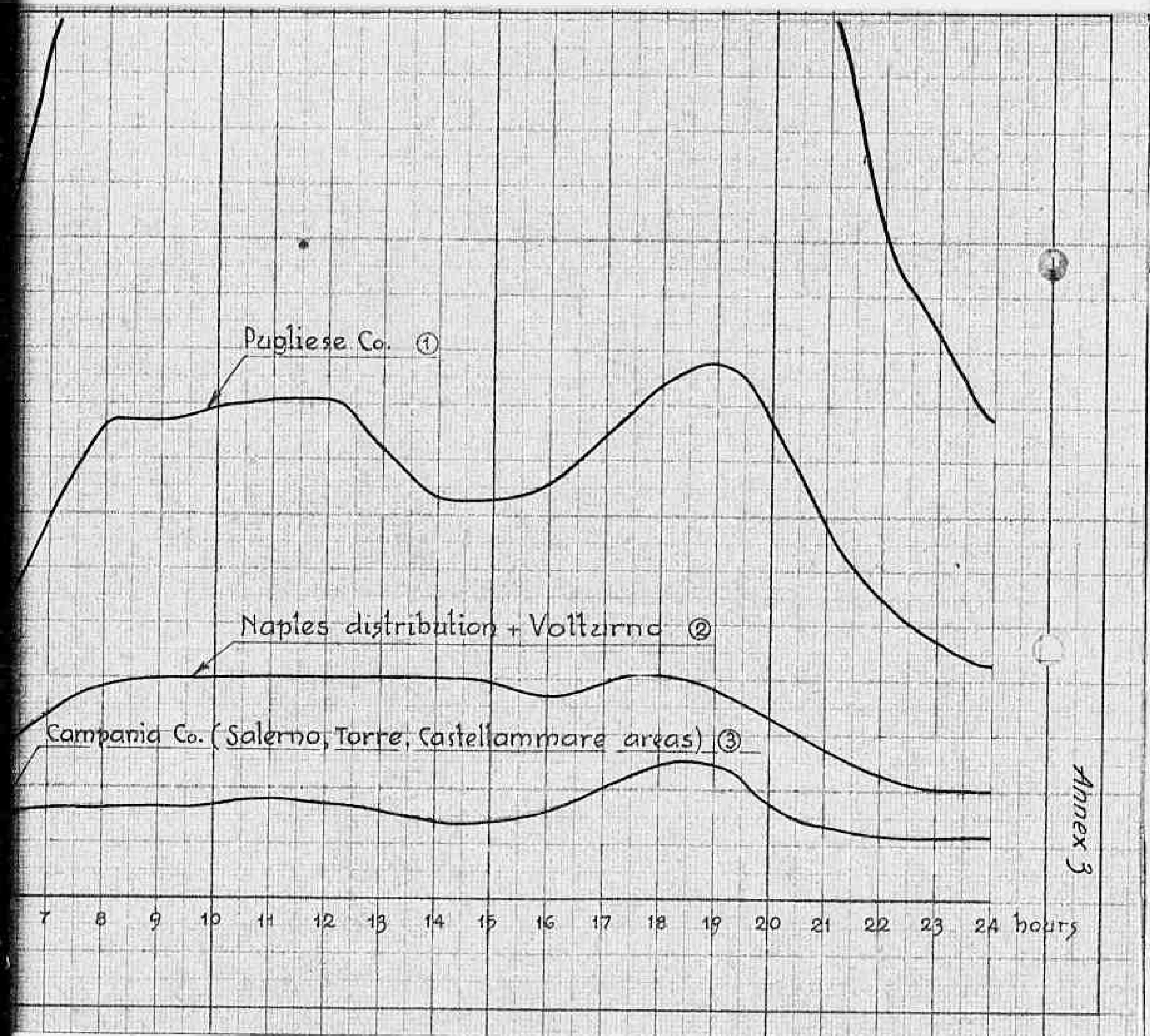
# DAY DEMAND OF THE LAST WEEK OF DECEMBER 1943

Total output  $\equiv$  ① + ② + ③ + others + losses

Pugliese Co. ①



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Declassified E.O. 12356 Section 3.3/NND No. 775016

Declassified E.O. 12356 Section 3.3/NND No. 785016

# AVERAGE WORK DAY DEMAND OF THE LAST WEEK OF D PUGLIESE Co.

- Total demand
- Lighting
- Other residential uses
- Flour mills, water pumps, cold stores, oils manufactories, etc.
- Tramways
- Mechanical, dockyard, cement manufactories, etc.

MW

50

45

40

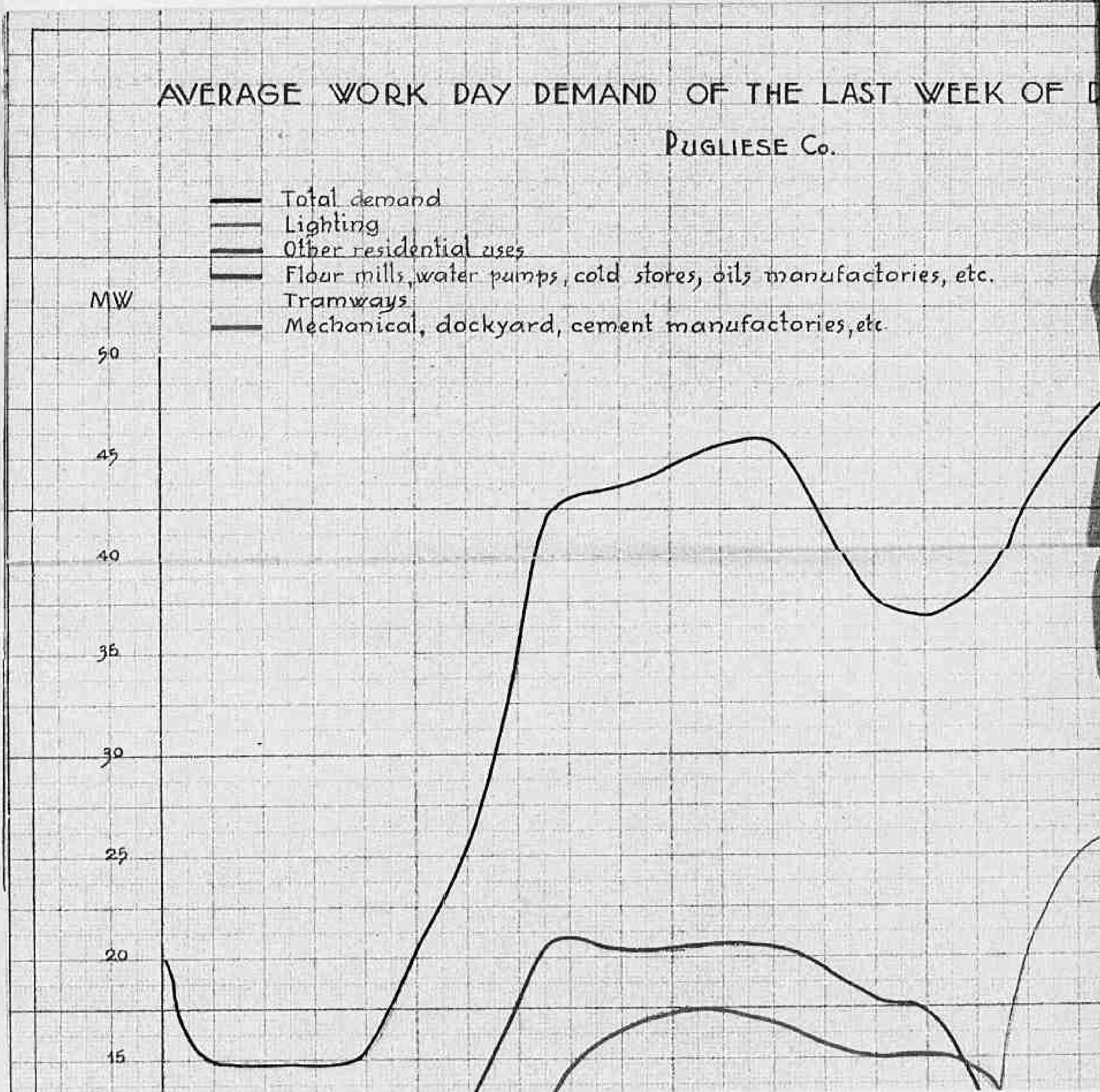
35

30

25

20

15



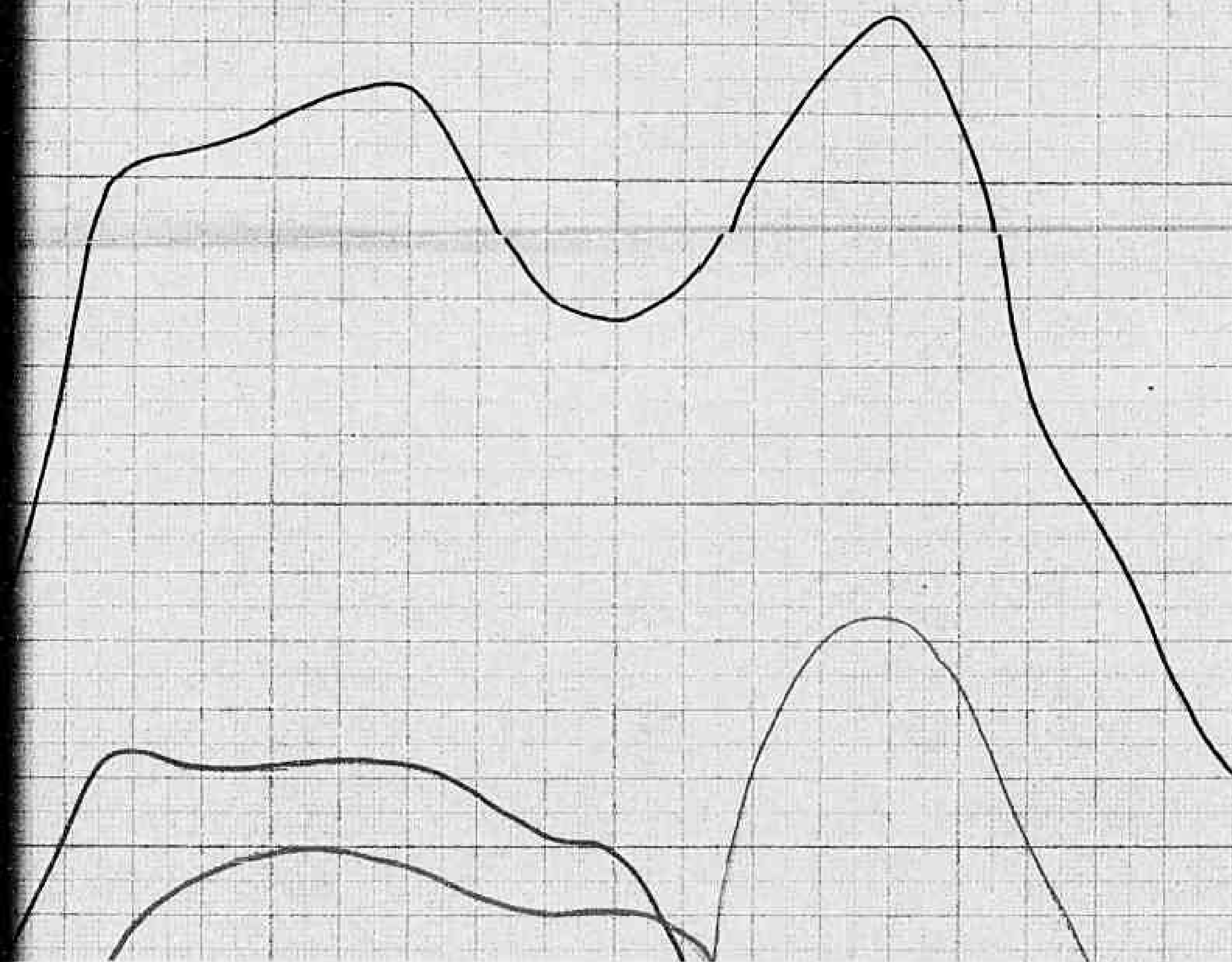
1581

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AY DEMAND OF THE LAST WEEK OF DECEMBER 1943

PUGLIESE Co.

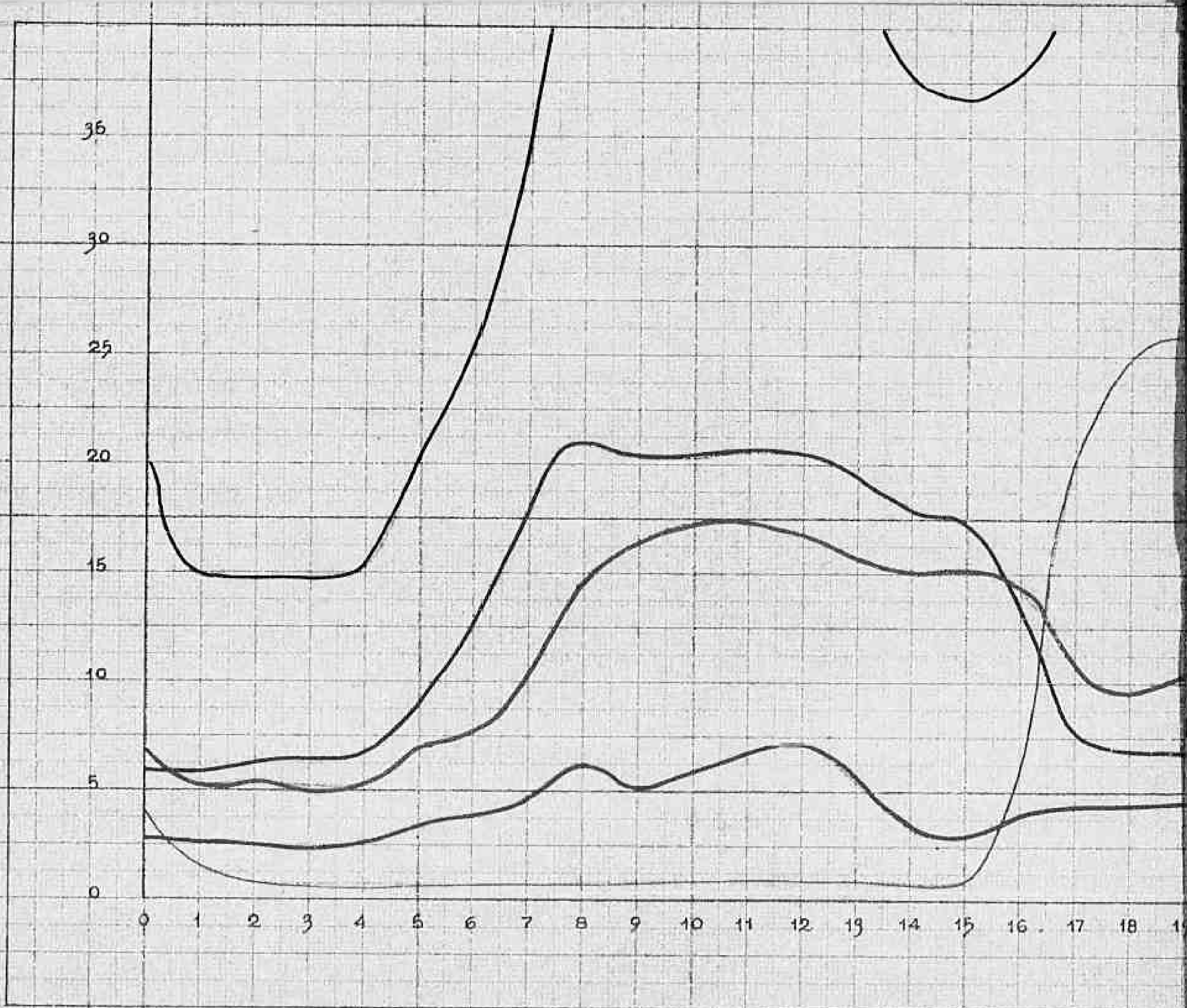
215.5  
pumps, cold stores, oils manufactories, etc.  
kyard, cement manufactories, etc.



21

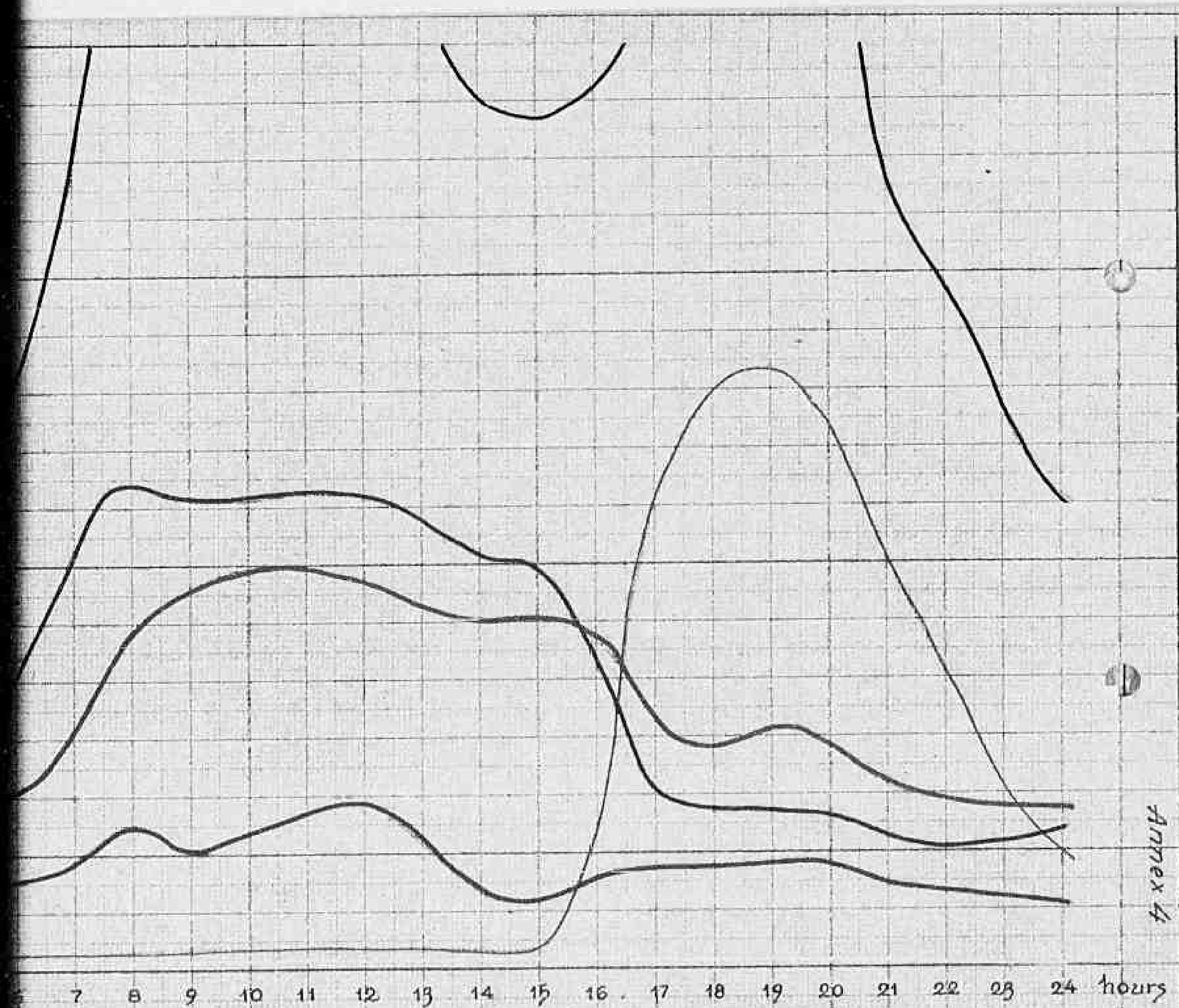
1582

Declassified E.O. 12356 Section 3.3/NND No. 785016



1583

Declassified E.O. 12356 Section 3.3/NND No. 785016



1584

Declassified E.O. 12356 Section 3.3/NND No. 775016

AVERAGE WORK DAY DEMAND OF THE LAST WEEK OF  
NAPLES DISTRIBUTION + VOLTURNO

MW

20

18

16

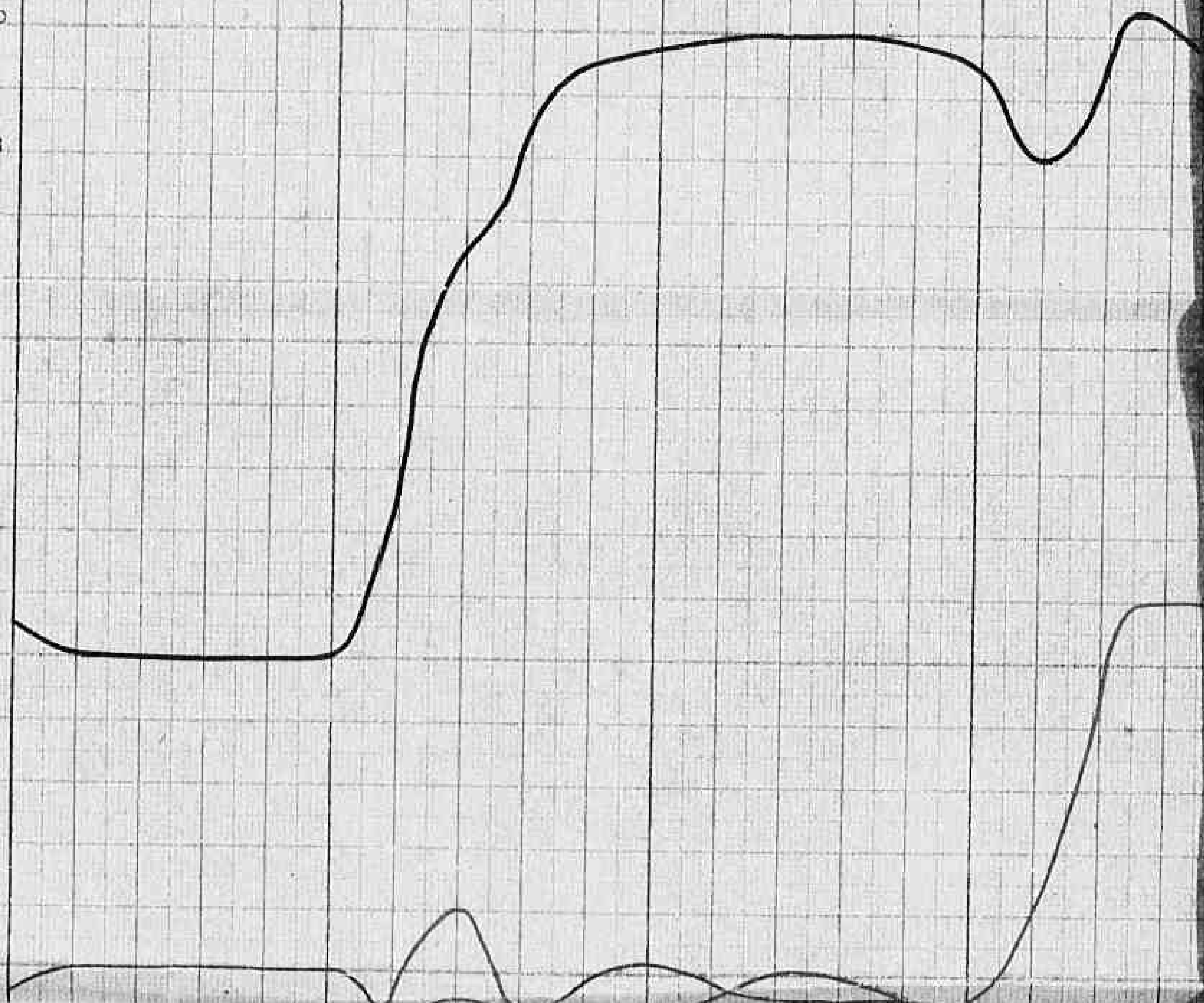
14

12

10

8

6

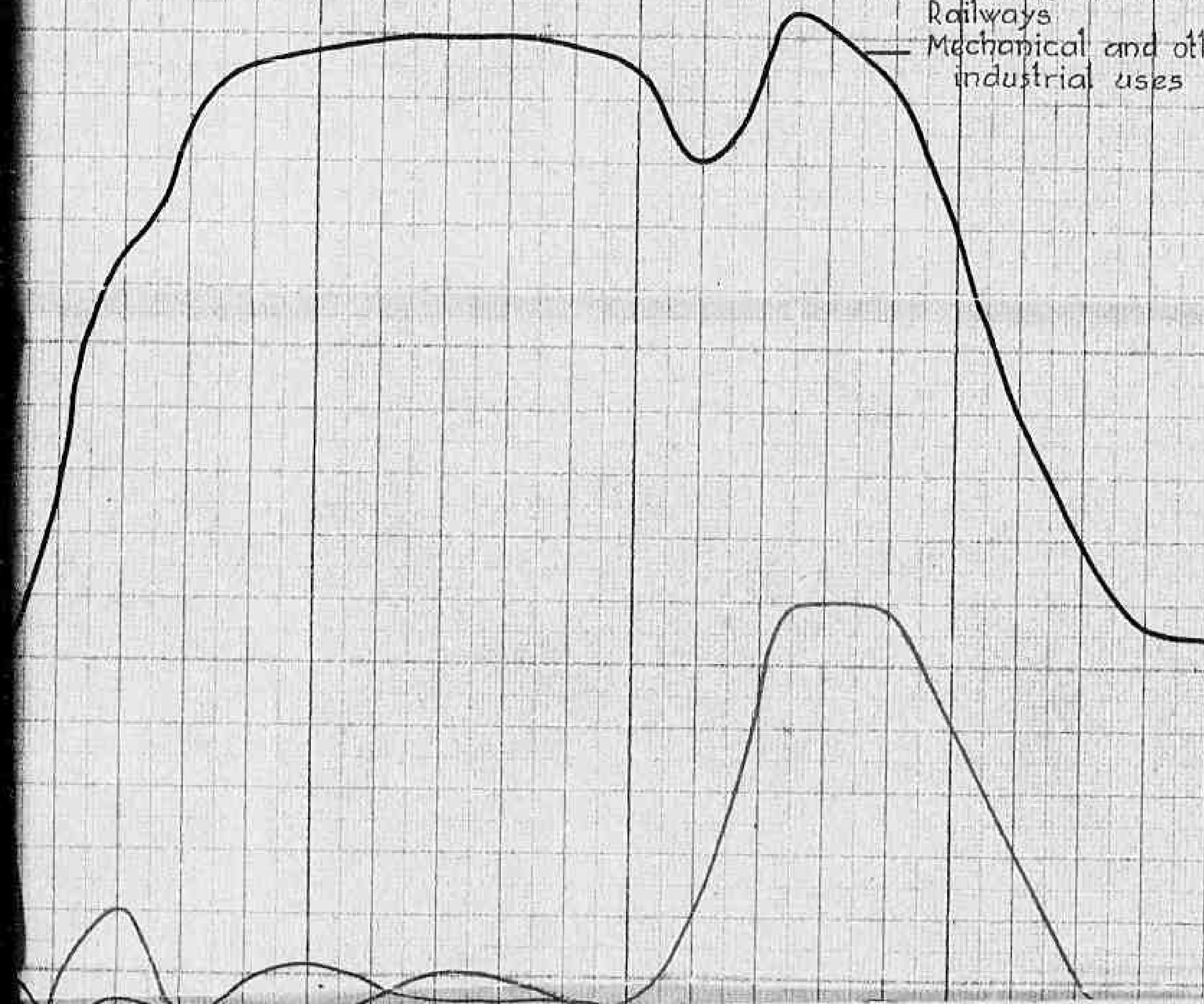


Declassified E.O. 12356 Section 3.3/NND No. 725016

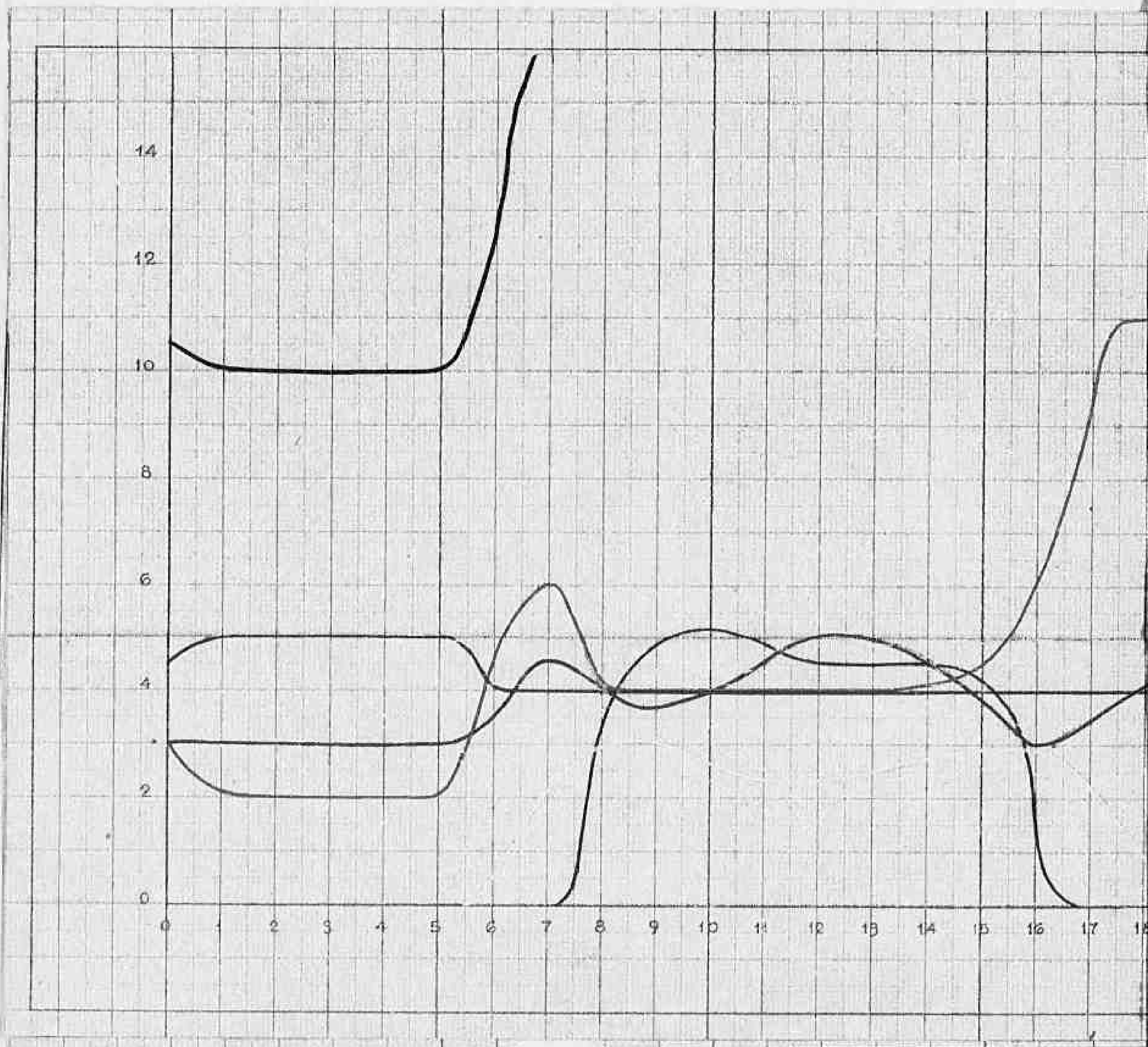
## DAY DEMAND OF THE LAST WEEK OF DECEMBER 1943

NAPLES DISTRIBUTION + VOLTURNO

- Total demand
- Lighting
- Other residential uses
- Flour mills, water pumps, sewerages, bakeries, etc.
- Railways
- Mechanical and other industrial uses

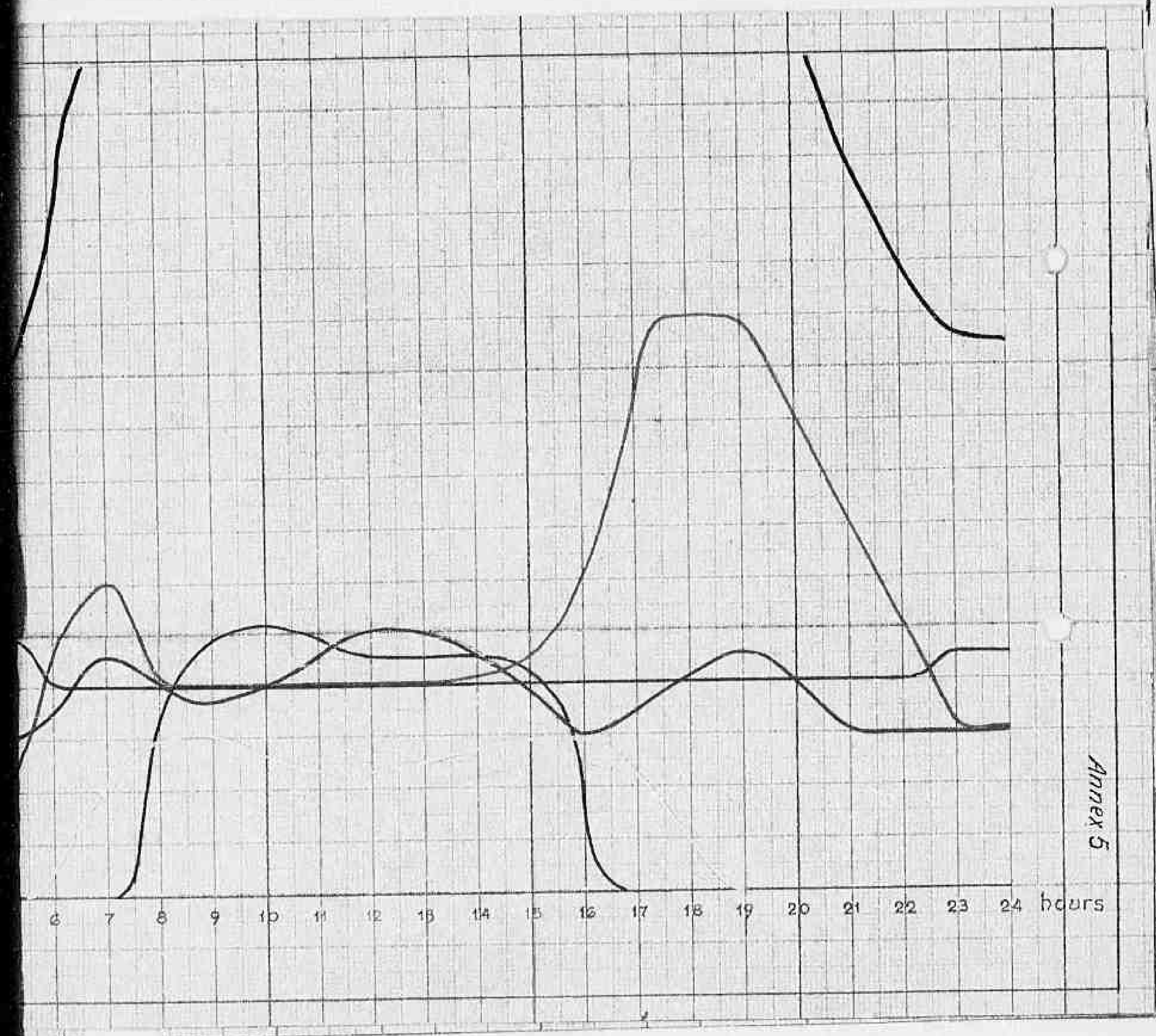


Declassified E.O. 12356 Section 3.3/NND No. 785016



1587

Declassified E.O. 12356 Section 3.3/NND No. 735016



Declassified E.O. 12356 Section 3.3/NND No. 785016

AVERAGE WORK DAY DEMAND OF THE LAST WEEK OF  
Campania Co. (Salerno-Torre & Castellammare)

MW

12

11

10

9

8

7

6

5

4

3

2

1

0

0

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

- Total demand
- Lighting
- Other residential uses
- Flour mills, water pumps,  
preserved manufactories, etc.
- Railways
- Mechanical, cement, (only during night  
hours) cotton manufactories, etc.

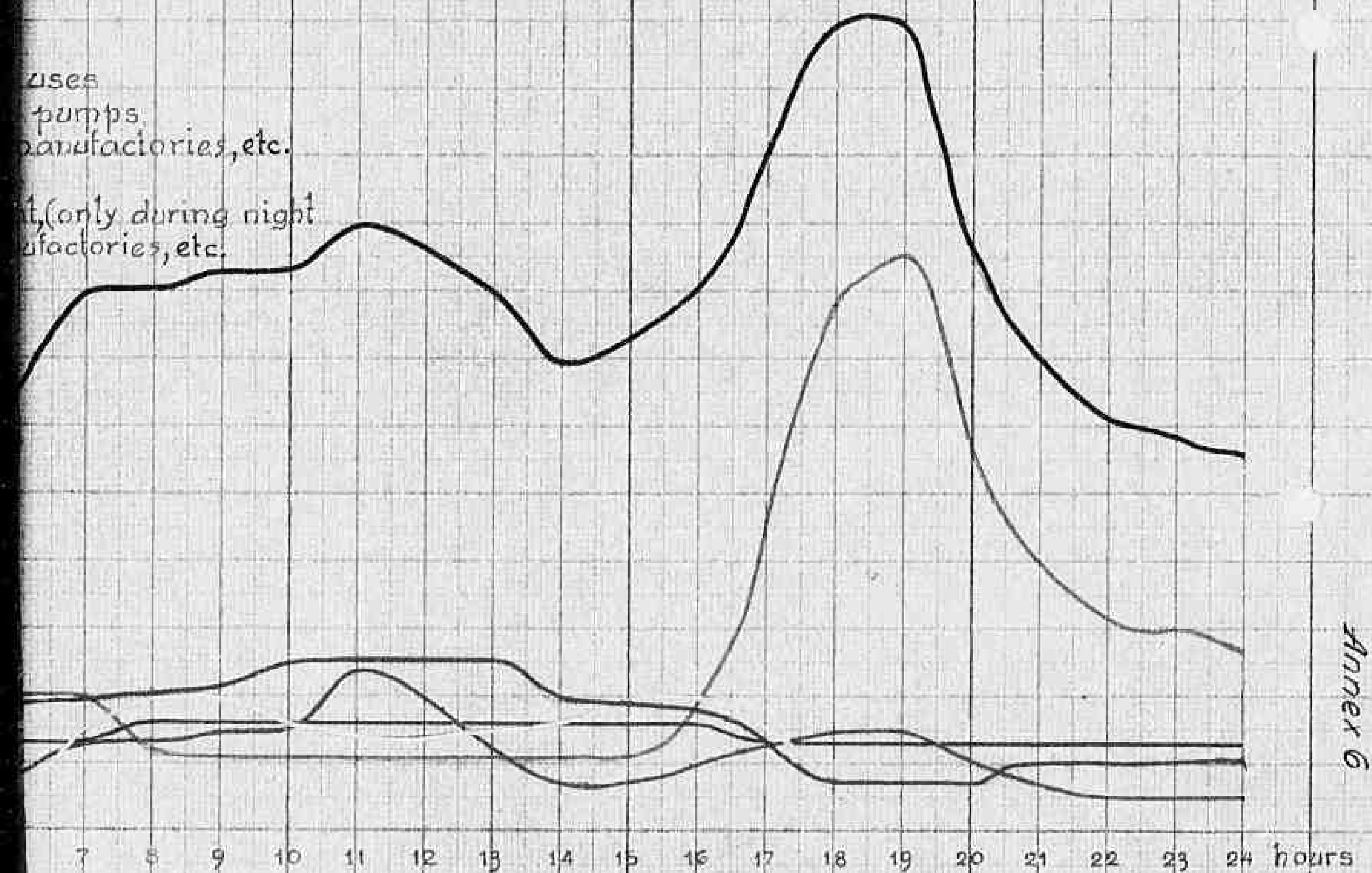
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

Declassified E.O. 12356 Section 3.3/NND No. 775016

WEEK DAY DEMAND OF THE LAST WEEK OF DECEMBER 1943  
Campania Co. (Salerno-Torre & Castellammare areas)

uses  
pumps  
manufactories, etc.

at, (only during night  
manufactories, etc.



Annex 6

ACC 10

Subject:- Electric Power.

HQ AAL (ADM Ech),  
C.M.F.

2131/1/Q2.

1 Apr 44.

2 District (15)  
3 District (15)  
Peninsular Base Section (15)

1. The schedule attached to HQ, AFHQ Adm Ech, letter 59/8/Q2 dated 4 Feb., 44, is cancelled.
2. Revised schedule of electric power for April, 44, forwarded at Appendix "A" hereto will be operative from 1 Apr., 44.

*Q/H/10/10*  
for Major-General,  
Chief Administrative Officer.

Copy to:- ACCT  
Fifth Army  
Fifth Army (Br Increment)  
Main Eighth Army  
Rear Eighth Army  
FOWIT  
FOFA  
HQ TAF  
HQ DAF  
HQ 214 Group RAF  
Adv HQ 214 Group RAF  
AAAFSC/MTC  
DGERS

(6) ACC (20)  
(2) Local Resources Sec (8)  
(2) List "A" Flambo  
(2) War Diary (2)  
(2) File  
(2)

Copy to: - ACME

- Fifth Army
- Fifth Army (Br Increment)
- Main Eighth Army
- Rear Eighth Army
- POWIT
- FOIA
- HQ TAF
- HQ DAF
- HQ 214 Group RAF
- Adv HQ 214 Group RAF
- AAFSB/MTC
- DETRS

- ACC
- Local Resources Sec(8)
- List "A" Flamingo
- War Diary
- File

(6)  
(2)  
(2)  
(2)  
(2)  
(2)  
(2)

(20)  
(8)  
(2)

34.4

3949

703

Appendix "A" to  
HQ AAI (Adm Ech) letter  
2131/1/32 dated 1 Apr., 44.

# ALLOTMENT OF ELECTRIC POWER - APRIL, 1944.

| 150 K.V. & INTER-<br>CONNECTED SYSTEMS                                       | RESPONSIBILITY OF                 | MAXIMUM PERMITTED<br>KW X 10 <sup>3</sup> |
|------------------------------------------------------------------------------|-----------------------------------|-------------------------------------------|
| APULIA CO                                                                    | 2 DISTRICT                        | 38.0                                      |
| NAPLES DISTRICT                                                              | P B S                             | 27.2                                      |
| CAMPANIA CO:<br>(i) POMIGLIANO<br>(ii) SALERNO TORRE CAST.<br>(iii) S. MARIA | 3 DISTRICT<br>3 DISTRICT<br>P B S | 3.0<br>11.1<br>3.6                        |
| LUCANIA CO.                                                                  | 2 DISTRICT                        | 5.0                                       |
|                                                                              | TOTAL                             | 87.9                                      |
| CALABRIA 60 KV SYSTEM:<br>CALABRIA CO.                                       | A C C                             | 11.0                                      |
|                                                                              | TOTAL                             | 11.0                                      |
| RAILWAYS:                                                                    |                                   |                                           |
| NAPLES AREA                                                                  | DCIES                             | 1.0                                       |
| FOGGIA BENEVENTO                                                             | "                                 | 6.0                                       |
| SALERNO - TORRE                                                              | "                                 | 2.0                                       |
| CALABRIA RAILWAY                                                             | "                                 | 3.0                                       |
|                                                                              | TOTAL                             | 12.8                                      |
|                                                                              | GRAND TOTAL                       | 111.7                                     |

*Puc' b  
20pr*

*2131/1/32*

Rec'd.  
25 March

COPY No... 22...

12 March 1944

A.A.C.  
GENERAL ELECTRICAL BOARD  
A.P.O. 400

MINUTES OF THIRD MEETING  
AAL - G-2.B.

The third meeting of the GENERAL ELECTRICAL BOARD was held at 0900 hrs 12 March 1944 at the offices of the Board at VIA PAOLO MULLIO INCHIATA, No 22, NAPLES.

PRESENT:-

|                                      |                  |
|--------------------------------------|------------------|
| BRIG. M.A. CUMWELL ROOING, CBE, DSO, | Chairman         |
| Colonel JAMES P. CHORDON             | Vice Chairman    |
| Colonel D.S. EURNS                   | P.B.S.           |
| Lt-Col. W.A.R. SMITH, RE.            | P.B.S.           |
| Lt-Col. W.M. LAYNE                   | A.C.O.           |
| Lt-Col. G. COOLEY,                   | Alternate P.B.S. |

1. The minutes of the last meeting were accepted without amendment.
2. Lt-Col. LAYNE reported a meeting with representatives of the ENTE AUTOMORE TORMINIA. The Board decided to defer further action with respect to the ENTE AUTOMORE TORMINIA until the effect of the meeting could be observed. Copy of report and the decision of the Board to be transmitted to Genr HOGAN. The Chairman emphasized that the Board was required to exercise general control over the operation of the power system and that this necessarily included supervision of the Company management.
3. It was reported to the Board that heavy snow in the SIA water shed had made available more power than was foreseen when power allocations were made. After discussion the Board reported to the Electric Power Committee I.P.B. (Italian) that there was available for allocation, in the area served by the 60 KV transmission lines from SIA, not more than 10,000 KW for a period of not more than three months. Further availability to be determined at the end of that period.
4. The Military require power in BENEVENTO and the M.R.S. require a possible source of supply at the BENEVENTO end of their BENEVENTO-BOGGLA line. This can only be supplied by the rehabilitation of the BENEVENTO 60 KV line: and is essential for the power system.

2. The minutes of the last meeting were adopted without amendment.
3. Lt-Col. JAGGER reported a meeting with representatives of the ENTE AUTONOMO VULturno. The Board decided to defer further action with respect to the ENTE AUTONOMO VULturno until the effect of the meeting could be observed. Copy of report and the decision of the Board to be transmitted to Cdr HOGAN. The Chairman emphasized that the Board was required to exercise general control over the operation of the power system and that this necessarily included supervision of the Company management.
4. It was reported to the Board that heavy snow in the SILE water shed had made available more power than was foreseen when power allocations were made. After discussion the Board reported to the Electric Power Committee L.R.B. (Italian) that there was available for allocation, in the area served by the 60 KV transmission lines from SILE, not more than 10,000 KW for a period of not more than three months. Further availability to be determined at the end of that period.
5. The Military require power in BENEVENTO and the M.R.S. require a possible source of supply at the BENEVENTO end of their BENEVENTO-FOGGIA line. This can only be supplied by the rehabilitation of the MARTESE-BENEVENTO 60 KV line. This work was allotted to the P.B.S. and accepted by them with the proviso that they would discontinue the work at any time should the troops to be employed thereon be required for other operations. The transmission line BENEVENTO-CALORE is required to rehabilitate <sup>3048</sup> CALORE hydro electric generating plant and to transmit power from that plant when it is again in operation. After discussion, the Board allotted the work to No. 3 District.
6. The CALORE hydro electric plant contains two 12,000 HP hydro electric generating units operating under 190 meters head. It has been damaged by mining. One unit has been less damaged than the other. The work of repairing the power station and placing the least damaged unit in operation and removing the more damaged unit and transporting it to NAPLES for repair was allotted to No 3 District.
7. After discussion the Board decided to ask the L.R.B. (Italian) and its pertinent committee to allot electrical equipment, material and supplies only after approval by the Board. The Board recommends to the C.A.O., A.A.I. the issuance of an order exempting from requisition, except with prior approval of the Board, all equipment, materials and supplies in the possession of the various power Companies.

34.4

7. The Board allotted to the A.C.C. the work of removing, marking for re-assembly, packing for shipment and shipping from PALERMO to NAPLES, one 3500 KV. Hydro electric unit now installed in the ALTO BELICE plant of the General Electric Company of SICILY. This was accepted by the A.C.C.
8. The need for a 20,000/30,000 KW floating power plant for the Italian Theatre of Operations was discussed but no action was taken.
9. The Board requests the Royal Navy to continue the rehabilitation of the CAPUAFO Steam Plant until the third 15,000 KW unit has been placed in condition to operate.
10. The meeting of the CENTRAL ELECTRICAL BOARD adjourned at 1200 hrs, 12 March 1944, to meet again on the call of the Vice Chairman.

JAMES P. GROWDON,  
COLONEL CE,  
Vice Chairman,  
AAI CENTRAL ELECTRICAL BOARD.

DISTRIBUTION:-

- |       |                             |
|-------|-----------------------------|
| 1-3   | C.A.O. AAI (Adm Echelon)    |
| 4-6   | C.G. P.B.S.                 |
| 7-8   | C.E. A.A.I.                 |
| 9-10  | D.D.W.                      |
| 11-12 | Chief Commissioner A.C.C.   |
| 13-15 | Vice Chairman, C.E.B.       |
| 16-17 | Flag Officer, Western Italy |
| 18    | D.C.A.O.                    |
| 19.   | A.I.                        |
| 20    | D.C.M.G.                    |
| 21    | C.E. P.B.S.                 |
| 22 ✓  | Electric Power Committee    |
| 23    | File                        |
| 24-34 | Spare.                      |

Declassified E.O. 12356 Section 3.3/NND No. 785016

*File EP*  
| CLEAR MESSAGE IN |

6531  
IMPORTANT

TO ACTION REAR 8 ARMY 12 AIR FORCE INFO FLAMBO ACC

FROM Q DISTWO

Q 377

*20 Mar*

*Rec'd  
21 Mar*

\*\*\*\*\*  
TOTAL INTERRUPTION OF ELECTRICITY SUPPLY IN EASTERN ITALY FOR  
ESSENTIAL LINE REPAIRS 0200 TO 0600 HRS 22 MARCH. ALL INFORMED  
\*\*\*\*\*

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ACTION Q

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G4

CR3/FACTOR202050A

*34.4*

*3947*

*Rec'd 28 Feb.*

Subject:- Electricity Control.

HQ., ACF (Adm Echelon)  
CMF.

121/1/02.

27 Feb 44.

To:- No 2 District - (15)  
No 3 District - (15)  
CG, Peninsular Base Section - (15)

The attached schedule "Revised Allotment of Electric Power 25 February 44 supersedes the schedule published with 59/8/02 of 4 Feb 44.

*Satish*  
Major General,  
Chief Administrative Officer.

Copy to:- ACF  
Fifth Army  
Fifth Army (Br Increment)  
Main Eighth Army  
Rear Eighth Army  
FOVIT  
FOVA  
HQ TAF  
HQ DAF  
HQ 214 Group RAF  
Adv HQ 214 Group RAF  
AAFC/MTO

(6) (20)  
(2) (2)  
(2) Local Resources Sec (8)  
(2) List "A" Plambo  
(2) War Diary (2)  
(2) File

*(over)*

3946

1398

Declassified E.O. 12356 Section 3.3/NND No. 785016

War Diary  
File

(2)

(2)  
(2)  
(2)

Rear Eighth Army  
FOUO  
FOUO  
HQ TAF  
HQ DAF  
HQ 214 Group RAF  
Adv HQ 214 Group RAF  
AARSC/ATO

(over)

3946

34.4

*File 812*

REVISED ALLOTMENT OF ELECTRIC POWER - 25 FEBRUARY 1944.

| 150 K.V. & INTER-<br>CONNECTED SYSTEMS | RESPONSIBILITY<br>OF | MAXM PERMITTED KW FROM FEB. |                       |
|----------------------------------------|----------------------|-----------------------------|-----------------------|
|                                        |                      | KW x 10 <sup>3</sup>        | KWH x 10 <sup>6</sup> |
| APULIA CO                              | 2 DIST               | 34.0                        | 20.4                  |
| NAPLES DIST                            | P B S                | 27.2                        | 16.6                  |
| CAMPANIA CO:                           |                      |                             |                       |
| (i) PORTICIANO                         | 3 DIST               | 3.0                         | 1.2                   |
| (ii) SALERNO TORRE CAST                | 3 DIST               | 10.0                        | 6.6                   |
| (iii) S. MARIA                         | P B S                | 3.0                         | 1.35                  |
| LUCANIA CO                             | 2 DIST               | 5.0                         | 2.1                   |
|                                        | TOTAL                | 82.2                        | 48.25                 |
| CALABRIA 60 K.V. SYSTEM:-              |                      |                             |                       |
| CALABRIA CO                            | 2 DIST               | 11.0                        | 3.3                   |
|                                        | TOTAL                | 11.0                        | 3.3                   |
| RAILWAYS:                              |                      |                             |                       |
| NAPLES AREA                            | DG MRS               | 1.8                         | .6                    |
| FOGGIA - BENEVENTO                     | "                    | 6.0                         | 2.0                   |

|                           |       |       |
|---------------------------|-------|-------|
| 3 DIST                    | 3.0   | 1.2   |
| (14) SALERNO TORRE CAST   | 10.0  | 6.6   |
| (iii) S. MARIA            | 3.0   | 1.35  |
| LUCANIA CO                | 5.0   | 2.1   |
| TOTAL                     | 82.2  | 48.25 |
| CALABRIA 60 K.V. SYSTEM:- |       |       |
| CALABRIA CO               | 11.0  | 3.3   |
| TOTAL                     | 11.0  | 3.3   |
| RAILWAYS:                 |       |       |
| NAPLES AREA               | 1.8   | .6    |
| FOGGIA - BENEVENTO        | 6.0   | 2.0   |
| SALERNO - TORRE           | 2.0   | .7    |
| CALABRIA RAILWAY          | 3.0   | .2    |
| TOTAL                     | 12.8  | 4.2   |
| GRAND TOTAL               | 106.0 | 55.75 |

1 July 81  
MESSAGE IN.

N  
SIGS NO:4586  
IMMEDIATE.

TO:- FLAMBO. ACC.

FROM:- DISTWO.

Q162

19 Feb

=====

ELECTRIC POWER INTERRUPTION DUE TO FAILURE OF CONTROL PLANT.  
ANTICIPATE PARTIAL SUPPLY TONIGHT LIMITED TO 40% NORMAL. HOPE  
NORMAL SERVICE IN 48 HRS. MEANWHILE SUPPLY LIMITED TO LARGE  
TOWNS AND SELECTED AREAS. HOSPITALS AND OTHER IMPORTANT LOADS  
WILL BE GIVEN PRIORITY. INSTRUCTIONS HAVE BEEN SENT TO CRES  
OF AREAS THROUGH RE CHANNELS. ALL INFORMED

=====

SMC DISTRIBUTION

ACTION  
INFO

Q.

WORKS.

ACC(LO).

J.S.C.

SMCTOR 192230A.

3945

34.4

HEADQUARTERS PENINSULAR BASE SECTION

08 FEBRUARY 1944

SECRET  
PRIORITY\_\_

TO (ACTION) : FLAMBO FOR ROBERTSON\_  
(INFORMATION) : FARGO FOR GRADY\_  
FROM : SEYMED LARKIN\_  
DATE TIME SIGNED : 071927 A  
DATE TIME REC'D : 080206 A  
REF NR : 48739  
CITE : PHENG AND PHGDS\_

CERTAIN INQUIRIES FROM AGWAR HAVE BEEN REPEATED TO FARGO FOR GRADY IN CABLE 48160 THIS HEADQUARTERS. THESE INQUIRIES RELATE TO POWER PLANT PLANS FOR ROME AND FOR REPORT ON RESTORATION OF POWER SYSTEM OF NAPLES OR FOGGIA. IT IS DESIRED THAT THIS REPORT BE AS COMPLETE AS POSSIBLE AND TO INCLUDE ACTION TAKEN BY PBS OR OTHER LOCAL AGENCIES IN REHABILITATION WORK PRIOR TO ORGANIZATION OR YOUR CENTRAL POWER AGENCY. SUGGEST THAT REPLY TO INQUIRY BE COORDINATED THROUGH YOU OR YOUR POWER AGENCY PRIOR TO DISPATCH\_\_

ACTION : KREKKE  
INFO : AMG HQ  
: WGS ADV  
: ENGR O  
: C-4  
: SECT'Y GEN. STAFF  
: COMMANDING GENERAL\_

3944

SECRET

34.4

SECRET

HEADQUARTERS PENINSULAR BASE SECTION

7 FEBRUARY 1944

..SECRET

..PRIORITY

TO (ACTION) : CG PBS FOR FARGO FOR GRADY

(INFORMATION) : NONE

FROM : SIGNED CINC

DATE TIME SIGNED : 061435A

DATE TIME REC'D : 062016A

REF. NR. : 48158

CITE : FHMCS, FHENG

AGHAR WANTS TO KNOW WHETHER ELECTRIC POWER EQUIPMENT, DESCRIBED BY CISLER IN  
REFERENCE CABLE PBS 2902 <sup>OF</sup> 21 DECEMBER 1943, IS FOR AMG USE. REPLY URGENT. NO  
RECORD HERE.

ACTION: AMG HQS

INFO.: MGS ADV ✓  
SECY  
C.G.

SECRET 3943

34.4

Subject: Electricity Control.

AFHQ Adv Adm Echelon,  
CMF.

59/8/32.

4 Feb 44.

To: No 2 District - (15)  
No 5 District - (15) (for action when formed)  
CG, Peninsular Base Section - (15)

1. The supply of electricity in occupied Italy is limited and strict control is essential in order that its use may be diverted to the war effort and not be wasted. The attached schedule shows the limits of supply which will be made available in each area. The maximum or peak demand is shown as well as the total consumption permissible. It is necessary to ensure that these figures are not exceeded.

2. The responsibility for control must at the moment rest with the Military Commander in each area who will work in conjunction with the local AMG/ACC representative.

The connected loads must be limited by restricting the number and size of new connections and by checking existing connections to see that they are not loaded beyond what is strictly necessary. Unnecessary loads will be cut off altogether.

Steps will therefore be taken to ensure that supplies available are allocated to the essential military and civil needs. That a priority list, in which new connections are to be made, is laid down. Further, a priority list of disconnections will be prepared so that low priority consumers may be cut off, should this course become necessary.

3. The Societa Meridionale Electricita controls the electricity supply grid in Southern Italy but the distribution is in the hands of local supply companies. The supply by the SME to these local companies will be controlled in accordance with allocations made by the Electric Power Committee or, in case of appeal, by the Local Resources Board.

4. You will make such arrangements as may be necessary to carry out a local system of control and it is suggested that a Committee be established in each area which would be competent to recommend to the Commander how the restricted supply available to each area might be allotted. At the same time, it is considered essential that one officer be appointed to deal with the

reprosen 1070.

The connected loads must be limited by restricting the number and size of new connections and by checking existing connections to see that they are not loaded beyond what is strictly necessary. Unnecessary loads will be cut off altogether.

Steps will therefore be taken to ensure that supplies available are allocated to the essential military and civil needs. That a priority list, in which new connections are to be made, is laid down. Further, a priority list of disconnections will be prepared so that low priority consumers may be cut off, should this course become necessary.

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4. You will make such arrangements as may be necessary to carry out a local system of control and it is suggested that a Committee be established in each area which would be competent to recommend to the Commander how the restricted supply available to each area might be allotted. At the same time, it is considered essential that one officer be appointed to deal with the local supply companies in each area and that orders be issued that no person other than he shall have access to the company.

3943  
W. J. O. C. M.  
Major General, C. M.  
Deputy Chief Administrative Officer.

Copy to:- ACME  
Fifth Army  
Fifth Army (Br Increment)  
Main Eighth Army  
Rear Eighth Army  
FOCIT  
FOCMA  
HQ TAD  
HQ DAV  
HQ 21st Group RAF  
Adv HQ 21st Group RAF  
AFSC/100

(6) (20)  
(2) (2)  
(2) (8)  
(2) (2)  
(2) (2)  
(2) (2)  
(2) (2)

ACC  
MGS Adv  
Local Resources Sec  
List "A" Flambo  
War Diary  
File

34.4

## ALLOTMENT OF ELECTRIC POWER FEBRUARY 1944

| 150 K.V. & INTER-<br>CONNECTED SYSTEMS | RESPONSIBILITY<br>OF | MAXm PERMITTED KW FROM FEB. | KW x 10 <sup>3</sup> | KWH x 10 <sup>6</sup> |
|----------------------------------------|----------------------|-----------------------------|----------------------|-----------------------|
| APULIA Co                              | 2 DIST               | 34.0                        | 20.4                 |                       |
| NAPLES DIST                            | P B S                | 28.2                        | 16.8                 |                       |
| CAMPANIA Co                            |                      |                             |                      |                       |
| (i) POMILIGIANO                        | 3 DIST               | 2.0                         | 1.0                  |                       |
| (ii) SALERNO TORRE CAST                | 3 DIST               | 10.0                        | 6.6                  |                       |
| (iii) S. MARIA                         | P B S                | 3.0                         | 1.35                 |                       |
| LUCANIA Co                             | 3 DIST               | 5.0                         | 2.1                  |                       |
|                                        | TOTAL                | 82.2                        | 48.25                |                       |
| CALABRIA 60 K.V.<br>SYSTEM:-           |                      |                             |                      |                       |
| CALABRIA Co                            | 2 DIST               | 11.0                        | 3.3                  |                       |
|                                        | TOTAL                | 11.0                        | 3.3                  |                       |
| RAILWAYS                               |                      |                             |                      |                       |
| NAPLES AREA                            | D.G. M.R.S.          | 1.8                         | .6                   |                       |
| FOGGIA -<br>BENEVENTO                  | "                    | 6.0                         | 2.0                  |                       |
| SALERNO-TORRE                          | "                    | 2.0                         | .7                   |                       |
| CALABRIA RAILWAY                       | "                    | 3.0                         | .9                   |                       |

CALABRIA 60 K.V.  
SYSTEM:-

CALABRIA Co

2 DIST 11.0 3.3

TOTAL

11.0 3.3

RAILWAYS

NAPLES AREA

D.G. M.R.S.

1.8 .6

FOGGIA -  
BENEVENTO

"

2.0

SALERNO-TORRE

"

.7

CALABRIA RAILWAY

"

.9

TOTAL

12.8 4.2

GRAND TOTAL

106.0 55.75

394.1

AFHQ ADVANCED ADMINISTRATIVE SECTION  
Military Government Section, Advance  
APO 400

4 February 1944

SUBJECT: Cement Shipment

TO: Chief Commissioner, Allied Control Commission  
Attn.: Deputy Vice-President  
Economic & Administrative Section

The attached signal is referred to you for  
appropriate action.

A. I. HENDERSON,  
Lt. Col., A. U. S.,  
Chief, MGS Advance.

Incl.  
Signal from AMG Foggia Province  
to Flanbo for Merrill, FP 1, 2639

34<sup>3</sup>

3940

1 6 0 9

SECRET

HEADQUARTERS PENINSULAR BASE SECTION

22 JANUARY 1944

SECRET

ROUTINE

TO (ACTION) : TO FILPOT FOR AMG FOR LUSH, AMG 5TH ARMY AND CG PBS FARGO

(INFORMATION) : NONE

FROM : SIGNED CINC

DATE TIME SIGNED : 211137A

DATE TIME REC'D : 221130A

REF. NR. : 40817

CITE : PHMGS REFERENCE FA884

BELIEVE LT COL CISLER HQ AMG WILL HAVE RECEIVED AGWAR MESSAGE 6204  
OF 18TH JANUARY. MESSAGE INDICATES REQUEST HAS REACHED US FOR EMERGENCY  
ELECTRIC POWER EQUIPMENT.

INFO - AMG HQS  
MGS ADV. ✓  
SECY  
CC

3939

SECRET

34.4

① 23

HEADQUARTERS PENINSULAR BASE SECTION

20 JANUARY 1944

TO (ACTION) : FREEDOM FOR MOS  
(INFORMATION) : ANG FIVE ARMY  
FROM : ANG 15 ARMY GROUP  
DATE TIME SIGNED : 181200A  
DATE TIME REC'D : 200925A  
REF NR : FA 884  
CITE : HOME

FOR HOLMES FROM LUSH. REQUEST FOR EMERGENCY ELECTRIC POWER EQUIPMENT FOR HOME SENT BY PBS TO SOS. NO CONFIRMATION YET RECEIVED THAT REQUEST HAS REACHED U.S. EQUIPMENT REQUIRED IS NOT OBTAINABLE THROUGH NORMAL PROCUREMENT OF UNFINISHED EQUIPMENT, BUT ONLY THROUGH DIVERSION OF FINISHED EQUIPMENT FROM LESS URGENT USES THROUGH APPLICATION OF HIGHEST PRIORITIES. APPRECIATE YOUR PERSONAL ASSISTANCE EXPEDITE PROCUREMENT AND SHIPMENT SPECIFICATIONS FOLLOW.

ITEM ONE: DIESEL ENGINE GENERATOR SETS AND AUXILIARY EQUIPMENT COMPLETE FOR INSTALLATION ON 3 LCTS. EACH POWER EQUIPPED LCT TO PROVIDE ABOUT 1000 KILOWATTS TOTAL CAPACITY IS NOT MORE THAN 3 SETS, PREFERABLY 2 OR 1 SETS. LCT LOCALLY AVAILABLE. EQUIPMENT INSTALLED LOCALLY. EQUIPMENT TO BE SHIPPED ASSEMBLED AS MUCH AS POSSIBLE IN KEEPING WITH FACILITIES ON CARGO SHIP FOR UNLOADING DIRECT FROM SHIP TO LCT. FOUNDATION BASE TO BE SUITABLE FOR PLACING DIRECTLY ON LCT DECK. ENGINE GENERATORS TO BE EQUIPPED FOR OPERATION AT 42, 45 AND 50 CYCLES WITH INITIAL OPERATION AT 45 CYCLES.

TRANSFORMERS, SWITCHING EQUIPMENT AND 300 FEET LENGTHS OF FLEXIBLE POWER CABLES TO BE FURNISHED TO PROVIDE 9000 PLUS OR MINUS 5 PERCENT AT EACH FREQUENCY FOR CONNECTION INTO PRIMARY DISTRIBUTION LINES. NO FUEL STORAGE REQUIRED. ALL EQUIPMENT FOR EACH FLOATING PLANT TO BE SHIPPED TOGETHER IN 3 SEPARATE SHIPS.

ITEM TWO: PORTABLE OR MOBILE DIESEL ENGINE GENERATOR SETS COMPLETE TOTALLING 3000 KILOWATTS IN SIZES 200 KW TO 400 KW. TRANSFORMERS, SWITCHING EQUIPMENT, 300 FEET LENGTHS OF FLEXIBLE CABLE FOR CONNECTION INTO SECONDARY DISTRIBUTION LINES AT 127 - 220 VOLTS, AND 150 - 260 VOLTS AT 42 . 45 AND 50 CYCLES WITH INITIAL OPERATION AT 45 CYCLES. SETS TO BE EQUIPPED FOR PARALLEL OPERATION. SHOULD BE AS LIGHT IN WEIGHT AS POSSIBLE DUE TO TRANSPORTATION CONDITIONS.

ITEM THREE: HIGHWAY TRAILERS FOR TRANSPORTING PORTABLE PLANTS DESCRIBED IN ITEM TWO TO NUMBER POSSIBLE. SHIPMENT PORTABLE SETS NOT TO BE DELAYED PENDING SHIPMENT OF TRAILERS.

ITEM FOUR: LINE TRUCKS, SIX IN NUMBER 2 TO 5 TONS CAPACITY, FOR MAKING EMERGENCY POWER CONNECTIONS AND TRANSMISSION LINE REPAIRS. COMPLETE WITH SUITABLE TOOLS AND EQUIPMENT.

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ACTION: AMG FIVE ARMY  
INFO : MIS ADV ✓  
ENGR  
TRANS  
C-4  
CG  
SEC'y

3937

Declassified E.O. 12356 Section 3.3/NND No. 785016

sig

CIPHER MESSAGE IN SECRET

SIGS NO 0095

TO: TROOPERS (FOR BRITISH CHIEF OF STAFF) RPTD AGWAR (FOR CCR (FOR CCAC)) FLAMBO (FOR MGS ADV FOR CCAO REGION III )

FROM: FREEDOM

26669 10 JAN

=====

SECRET CITE FH GDQ. MEG I2 (EG I2). REQUEST REPLY FREEDOM W- 9380/24227) EG9 OF FIFTH JANUARY.

SMC DISTRIBUTION ACTION MGS (ADV) ✓

SMC TOR III300 A WRW

34.4  
BNA/Clea

3536

8-12

SECRET

HEADQUARTERS PENINSULAR BASE SECTION

8 JANUARY 1944

SECRET

TO (ACTION) : TROOPERS (FOR BRITISH CHIEFS OF STAFF) AGWAR  
(FOR CCS, FOR CCAC)  
(INFORMATION) : FLAMBO (FOR MGS ADV) FOR CCAG REGION III  
FROM : FREEDOM  
DATE TIME SIGNED : 05 JAN  
DATE TIME REC'D : 081200A  
REFERENCE NR. : W9380/24227  
CITE : PHGDQ

3000 KGMS OF CABLE JOINT FILLING COMPOUND FOR 15 KV LEAD  
COVERED CABLES EQUIVALENT TO PIRELLI MILAN 915E (KOLE) REQUIRED  
ELBOW. REQUEST 500 KGMS PART BE DESPATCHED BY AIR FOR URGENT  
REPAIRS TO PUBLIC UTILITIES. FREEDOM 12074 OF 10 DEC TO TROOPERS  
FOR WILMCHIEF REFERS. REQUEST EARLIEST NOTIFICATION OF DESPATCH  
BY AIR AND SHIPMENT DATE FOR BALABB.

INFO : AMG 3  
MGS ADV ✓  
C.G.  
SECY

SECRET

3936

84

3/8

1614