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ADVISORY COMMITTEE ON ELECTRIC POWER (SARDINIA)  
MAR. - MAY 1945







SARINIA ELECTRICITY SCHEME

COPY No. 3

Telephone

Rome 489081 - Ext. 317

26 May 1945

ADVISORY COMMITTEE ON ELECTRIC POWER (SARDINIA)

MINUTES

The third-meeting of the Advisory Committee on Electric Power (Sardinia) was held at 1600 hours on Sunday 6 May 1945 in the offices of Società Elettrica Sarda (Cagliari).

Present :

Dr. Eng. T. FIORELLI - Chairman  
Dr. Eng. V. GARDIN - Member  
Dr. Eng. M. MANFREDI - Member

Eng. Fiorelli informed that he had been appointed chairman to the Committee by Lt. Col. W.M. Lapper (Chief Electrical Division A.C.) in agreement with Mr. Visentini (General Inspector for Electricity, Water and Gas of the Ministry of Public Works).

Eng. Fiorelli expressed his great satisfaction and the hope that Lt. Col. Lapper and some representatives of the Ministry of Public Works be sometimes able to attend to the meetings in order to establish a better connection with central organizations.

Eng. Sanna was absent due to engagement in continental

Italy.

3583<sup>2)</sup> - Minutes of the meeting held on 26 March 1945

The minutes were approved.

13) - Matters arising from previous minutes

Min. 8) - Supply of material needed for maintenance in hand by Ministry of Public Works.

Min. 9) - Cart-tilment schedule for emergency situation being prepared by Società Elettrica Sarda.

Min. 10) - The matter of supplying Soc. Elettrica Sarda with one 3 ton truck or a set of 6 tyres to carry on the Flumendosa project in hand by Ministry of

5407/11



The third meeting of the Advisory Committee on Electric Power (Sardinia) was held at 4600 hours on Sunday 6 May 1945 in the offices of Società Elettrica Sarda (Cagliari).

Present :

Dr. Eng. T. FIORELLI - Chairman  
 Dr. Eng. V. GANDIN - Member  
 Dr. Eng. M. MANFREDI - Member

Eng. Fiorelli informed that he had been appointed chairman to the Committee by Lt. Col. W.M. Lapper (Chief Electrical Division A.C.) in agreement with Mr. Visentini (General Inspector for Electricity, Water and Gas of the Ministry of Public Works).

Eng. Fiorelli expressed his great satisfaction and the hope that Lt. Col. Lapper and some representatives of the Ministry of Public Works be sometimes able to attend to the meetings in order to establish a better connection with central organizations.

Eng. Sanna was absent due to engagement in continental Italy.

35832) - Minutes of the meeting held on 26 March 1945

The minutes were approved.

13) - Matters arising from previous minutes

Min. 8) - Supply of material needed for maintenance in hand by Ministry of Public Works.

Min. 9) - Curtailment schedule for emergency situation being prepared by Società Elettrica Sarda.

Min. 10) - The matter of supplying Soc. Elettrica Sarda with one 3 ton truck or a set of 6 tyres to carry on the Plumendosa project in hand by Ministry of Public Works and A.C.

14) - To review progress and make recommendations in connection with the electric power generation and transmission in Sardinia

It was reported that 15 tons of transformer oil have been allotted to Società Elettrica Sarda; 5 tons collected, remaining amount being shipped from the continent. Reaction of S. Caterina steam station transformer No 3 will be possible when total amount of oil is received. Eng. Fiorelli referred to the serious situation in Sardinia, due to

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- 2 -

shortage of maintenance material needed for electrical distribution system.

The Committee recommended that lists of material be sent to the Ministry of Public Works urging that necessary steps be taken to make supplies available. It was reported that the supply of ball-bearings sent by A.C. was lost. A certificate of damage has been received by the ship Commander.

- 15) - Operation programme and allocation of power  
 Eng. Fiorrelli reported that the hydrological situation is very bad. Total stored capacity is now 34 millions kWh, including the safe margin; large production of power from steam stations will be needed to meet the island's requirements. Load reduction has already been obtained by disconnecting the Ammonie Works but the general situation remains very serious due to insufficient supply of coal.

The Committee recommended that in view of the demand for coal from the continent steps be taken to increase production of Sulcis Mines.

- 16) - Any other business  
 It was reported that supply of coal for Cagliari steam station, which will shortly start operating, had not yet been received due to shortage of coal and rail transport. The Committee agreed the seriousness of rail transport problem and recommended that necessary steps be taken to improve the situation.

- 17) - Date and time of next meeting  
 Next meeting will be held at 1630 hours on Monday 24 May 1945 in the offices of Società Elettrica Sarda - Cagliari (Sardinia).

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 Dr. Eng. FRANCESCO BARLUZZI  
 Secretary to the Committee



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The Committee agreed the seriousness of rail transport problem and recommended that necessary steps be taken to improve the situation.

17) - Date and time of next meeting

Next meeting will be held at 1630 hours on Monday 28 May 1945 in the offices of Società Elettrica Sarda - Cagliari (Sardinia).

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*[Signature]*  
Dr. Eng. FRANCESCO BARLUZZI  
Secretary to the Committee

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COPY NO.

APR 28 1945

SARDINIA ELECTRICITY SCHEME

Telephone

Rome 489084 - Ext. 317

15 April 1945

ADVISORY COMMITTEE ON ELECTRIC POWER (SARDINIA)MINUTES

The second meeting of the Advisory Committee on Electric Power (Sardinia) was held at 1600 hrs on Monday 26 March 1945 in the offices of Società Elettrica Sarda - Cagliari.

Present :

Dr. Eng. T. FIORELLI - Acting Chairman  
 Dr. Eng. V. CANDIN - Member  
 Dr. Eng. M. MANFREDI - Member

Eng. Fiorelli informed that Lt. Col. W. M. LAPPER (Chairman) and Eng. A. ASTA (Vice-Chairman) had been unable to attend the meeting. Eng. Sanna (member) was also absent due to engagement in the continental Italy.

6) - Minutes of the meeting held on February 23rd 1945

The minutes were approved.

Matters arising

Min. 2) Request of oil for Santa Caterina transformer (12,500 KVA) sent by Sarda Co. to Ministry of Public Works.

Min. 3) The question of Flumendosa project and extension of plant at Tiroso in hand by Ministry of Public Works.

Min. 4) A first list of materials urgently needed for maintenance of all plants was submitted to Ministry of Public Works.

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ADVISORY COMMITTEE ON ELECTRIC POWER (SARDINIA)

MINUTES

The second meeting of the Advisory Committee on Electric Power (Sardinia) was held at 1600 hrs on Monday 26 March 1945 in the offices of Società Elettrica Sarda - Cagliari.

Present:

Dr. Eng. T. FIORELLI - Acting Chairman  
Dr. Eng. V. SANDIN - Member  
Dr. Eng. M. MANFREDI - Member

Eng. Fiorelli informed that Lt. Col. W. M. LARPER (Chairman) and Eng. A. ASTA (Vice-Chairman) had been unable to attend the meeting. Eng. Sanna (member) was also absent due to engagement in the continental Italy.

6) - Minutes of the meeting held on February 23rd 1945

The minutes were approved.

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Min. 3) The question of Plumedosa project and extension of plant at Tiro in hand by Ministry of Public Works.

Min. 4) A first list of materials urgently needed for maintenance of all plants was submitted to Ministry of Public Works.

Min. 4) Request of tires, clothing and boots in hand by Ministry of Public Works and Allied Commission.

8) - To review progress and make recommendations in connection with the electric power generation and transmission in Sardinia

Eng. Fiorelli reviewed the situation of electric plants; total production of energy in 1945 is expected to be no more than 165 x 10<sup>6</sup> kWh (about 50% from steam stations) due to unfavourable hydrological season and insufficient maintenance of steam stations. Curtailment will be necessary to meet the estimated request of 180 x 10<sup>6</sup> kWh and



- 2 -

allow sufficient supply of power to fertilizer factories. The Committee recommended that material needed for maintenance of plant according to the complete list now submitted by Sarda Co. to Ministry of Public Works, be urgently supplied. It was reported that S. Gilla steam station (Cagliari) will probably start operation in May 1945 requiring 170 tons of coal a day.

9) - To discuss the operation programme and the allocation of power for the month of April 1945

The energy production in April will be equally met by hydro and steam stations.

The Committee recommended that Santa Caterina Steam Station be put into operation on the beginning of April in order to limit hydrogeneration thus providing a safe hydraulic reserve.

In view of difficulties of railroad transports for the coal needed at this station the Committee recommended that a curtailment schedule be now prepared in order to meet an emergency situation.

10) - Any other business

It was reported that the shortage of transports is causing serious delay to the work for Flumendosa Station. In January 1945 Sarda Co. was asked to return one military truck. Local transport organizations are unable to meet the Company requirements and one truck, owned by Sarda Co. is short of tires.

The Committee recommended that one truck (3 tons) or a set of 6 tires be supplied to the Company in order to carry on the Flumendosa project.

357 - Date and time of next meeting

Next meeting will be held in the offices of Società Elettrica Sarda at 1600 hours on Monday 23rd April 1945.

*Angelo Barlucci*  
Dr. Eng. FRANCESCO BARLUZZI  
Secretary to the Committee

Distribution



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- Date and time of next meeting

Next meeting will be held in the offices of Società Elettrica Sarda at 1600 hours on Monday 23rd April 1945.

*Angelo Baruzzi*  
Dr. ENZO FRANCESCO BARIUZZI  
Secretary to the Committee

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MAR 13 1945

COPY NO 4

SARDINIA ELECTRICITY BOARD

Telephone  
Rome 489081 - Ext. 307

9 March 1945

ADVISORY COMMITTEE ON ELECTRIC POWER  
(SARDINIA)

MEMBERS

The 1st meeting of the Advisory Committee on Electric Power (Sardinia) was held in the offices of Società Elettrica Sarda in Cagliari, at 1000 hours on Friday 23rd February 1945.

Present :

- |                         |                 |
|-------------------------|-----------------|
| Lt. Col. W. J. L. L. L. | - Chairman      |
| Prof. Eng. A. ASTA      | - Vice Chairman |
| Dr. Eng. P. BIGNARDI    | - Member        |
| Dr. Eng. V. GARDI       | - "             |
| Dr. Eng. S. S. S.       | - "             |
| Dr. Eng. M. M. M.       | - "             |
| Dr. Eng. F. BARLUCCI    | - Secretary     |

- 1) - Explanations by Lt. Col. W. J. L. L. L. on the functions and purpose of the Committee

Lt. Col. W. J. L. L. L. explained that the General Inspector for Electricity, Water and Gas of Ministry of Public Works and the Allied Commission had considered that it was now necessary that a much closer contact should be made between the Electric Power Companies, the Italian Government and the Allied Commission. In order to achieve this it had been decided to form Regional Committees to be known as "Advisory Committees on Electric Power". Such Committees were being formed for Central Italy, Southern Italy, Sicily and Sardinia. Representatives would be drawn from the Regional Committees to form a National Committee.

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ADVISORY COMMITTEE ON ELECTRIC POWER  
(SARDINIA)

MINUTES

The 1st meeting of the Advisory Committee on Electric Power (Sardinia) was held in the offices of Società Elettrica Sarda in Cagliari, at 1000 hours on Friday 23rd February 1945.

Present :

- |                         |                 |
|-------------------------|-----------------|
| Lt. Col. M. J. LAPPIN   | - Chairman      |
| Prof. Eng. A. A. STA    | - Vice Chairman |
| Dr. Eng. P. P. P.       | - Member        |
| Dr. Eng. V. V. V.       | - "             |
| Dr. Eng. S. S. S.       | - "             |
| Dr. Eng. M. M. M.       | - "             |
| Dr. Eng. P. P. BARLUCCI | - Secretary     |

1) - Explanations by Lt. Col. M. J. Lappin on the functions and purpose of the Committee

Lt. Col. M. J. LAPPIN explained that the General Inspector for Electricity, Water and Gas of Ministry of Public Works and the Allied Commission had considered that it was now necessary that a much closer contact should be made between the Electric Power Companies, the Italian Government and the Allied Commission. In order to achieve this it had been decided to form Regional Committees to be known as "Advisory Committees on Electric Power". Such Committees were being formed for Central Italy, Southern Italy, Sicily and Sardinia. Representatives would be drawn from the Regional Committees to form a National Committee.

The function of the Committee were to recommend and advise the General Inspector for Electricity, Water and Gas of the Ministry of Public Works on all matters pertaining to electric power throughout peninsular Italy, Sicily and Sardinia and for this purpose members would express their own views and not that of any particular Company with which they were connected.

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- 2) - To review progress and make recommendations in connection with the rehabilitation of the generating plants and transmission systems

The progress in rehabilitation of plants and transmission systems of Società Elettrica Sarda was reviewed by Eng. Tiorrelli. Following air raids the dams of Tirso I and Tirso II were damaged but necessary repairs have already been carried out.

Damages were reported at S. Caterina steam station where one boiler and one 12,500 kVA transformer are out of service. The transformer was repaired but is still short of oil. One turbo generator shipped to Sarda Company from North Italy was reported to be in Leghorn at the date of the armistice. It is now known that this plant is not in liberated Italy.

The out-door substation was also bombed and switches and other equipment were damaged. Repairs have been carried out but must be only considered as a temporary emergency arrangement.

Minor damages were also reported in the transmission systems and substations; emergency repairs have already been made.

The Committee recon ended that Sarda Company submit a request for oil in order to restore the 12,500 kVA transformer as stand-by unit at S. Caterina.

The generating station of Monteponi zinc and lead mines (2 units 4,000 kW each) is not operating due to shortage of coal and chemical reactives used in extraction process.

- 3) - To discuss the operation programme and the allocation of power for the month of March 1942

The maximum output obtainable at present from hydro stations is as follows :

|       |                        |
|-------|------------------------|
|       | 12,000 kW from Coginas |
|       | 10,000 " " Tirso I     |
|       | 4,000 " " Tirso II     |
| TOTAL | 26,000 kW              |

=====

Due to this, the S. Caterina steam station has

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3) - To discuss the operation programme and the allocation of power for the month of March 1945

The maximum output obtainable at present from hydro stations is as follows :

|       |                         |
|-------|-------------------------|
|       | 12,000 kW from Coghinas |
|       | 10,000 " " Tirso I      |
|       | 4,000 " " Tirso II      |
| TOTAL | 26,000 kW               |

In addition to this, the S.Caterina steam station has two 9,000 kW units and S.Gilla two 7,500 kW units.

The Committee considered that, during the month of March, the hydro-electric production will be sufficient to meet the requirements of the island; the steam stations will only be run in case of outages.

The estimated production of energy in 1945 is 180 millions kWh (against 240 in 1942 and 130 in 1944) due to reduced operation of mines and chemical factories.

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Tirso II were damaged but necessary repairs have already been carried out.

Damages were reported at S.Caterina steam station where one boiler and one 12,500 kVA transformer are out of service. The transformer was repaired but is still short of oil. One turbo generator shipped to Sarda Company from North Italy was reported to be in Leghorn at the date of the armistice. It is now known that this plant is not in liberated Italy.

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In 1942 the maximum demand was 45,000 kW whereas the present maximum demand is approximately 26,000 kW.

If it were decided to activate the coal and lead mines and subsidiary works, the present demand would increase to the 1942 figure of 45,000 kW.

Allowing the normal increase in demand for electricity the Committee was of the opinion that the present generating facilities would be insufficient to meet the demand in two years time and recommended that the Plumbendose project should be commenced at an early date. It was understood that the civil engineering works were 60% completed and that generating plants had been manufactured in Northern Italy prior to hostilities.

A considerable amount of transmission equipment was available on the island.

The Committee recommended that as a first stage a fourth unit would be installed at the Tirso I hydro station at an early date.

#### 4) - Any other business

The Committee recommended that in view of the possibility of increased demand of electricity on the island, due to activity of mines, etc. special care be taken to see that all generating stations are fully maintained, and that supplies of material be delivered for this purpose.

The Committee also recommended that necessary steps be taken to provide tyres, shoes and clothing.

#### 5) - Date and time of next meeting

Next meeting will be held at 1000 hours on Sunday 26th March 1945.

*W. H. B. B. B.*  
Dr. THG. FRANCO BARLUMBI  
Secretary Advisory Committee

Distribution  
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The Committee recommended that in view of the possibility of increased demand of electricity on the island, due to activity of mines, etc. special care be taken to see that all generating stations are fully maintained, and that supplies of material be delivered for this purpose.

The Committee also recommended that necessary steps be taken to provide tyres, shoes and clothing.

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5) - Date and time of next meeting

Next meeting will be held at 1000 hours on Monday 26th March 1945.

*Dr. Eng. FRANCESCO BARDUCCI*  
Secretary Advisory Committee

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