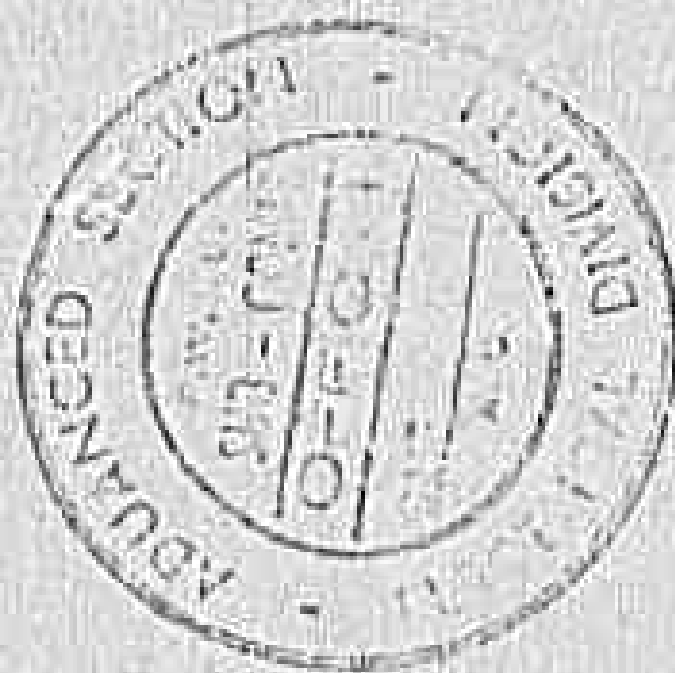


ACC S/4 10000/150/801

SOCIETA ADRIATICA DI ELE
GALILEO SOCIETA BOLOGNES
JAN. - MAY 1945

DIETÀ ADRIATICA DI ELETTRICITÀ OFFICINE
LILEO SOCIETÀ BOLOGNESE DI ELETTRICITÀ
N. - MAY 1945

SOCIETÀ ELETTRICA SELT - VALDARNO



S/h

Società Adriatica di
Elettricità
Affine Galileo
Pacifica Bologna
Elettricità

Approved - 19 Jan 45

Secrets Directorate in
 Ethiopia
 Addis Ababa
 Boreta Bolognese
 Ethiopia

Opened - 19 Jan 45
 Closed - 11 May 45

10000 / 150 / 801

THIS FOLDER
 CONTAINS PAPERS
 FROM JAN 45
 TO MAY 45
 CATALOGUE

4

TO: Ufficio Autotrasporti
Firenze

Application is made herewith for ^{the} permit to use gasoline on our truck Alfa Romeo FI 856 (~~permitt~~ circulation permit n° 1642) be renewed till the end of April.

This truck, which holds 7 quintals, is being used for connection with our Rome office, as well as for connection with the various electric plants which rehabilitation we are taking care of. For such service it is evidently impossible to use mathan gas.

The truck was till now registered at the name of Mrs. Eva Caroti, from whom we purchased the truck some months ago. Of lately the truck was registered at our name.

3241

11/5/45

G. P. E. Firenze 91516
Casella Postale 454
Telefono multiplo numero 41-345



Telegrammi GALILEO - Firenze
Conto Corrente Postale n. 5/1188
Marchi OFFICINE GALILEO - Firenze - ditta

OFFICINE GALILEO FIRENZE

DELLA SOCIETA' ADRIATICA DI ELETTRICITA' - SEDE IN VENEZIA - CAP. VERS. L. 1.280.000.000

FIRENZE, 21 Marzo 1945
VIA CARLO RINI, 44

PUBLIC UTILITIES
ALLIED COMMISSION

Presso Societa' Valdarno

Da citare nella risposta Segr. 002977

OGGETTO: Domanda proroga
permesso circolazione
ns. autocarro FI-856

FIRENZE

Preghiamo voler apporre una Vostra raccomandazione sull'unita domanda di proroga del permesso di circolazione a benzina per il nostro autocarro targa FI-856, che dovendo servire al collegamento con le varie centrali elettriche dove dobbiamo lavorare ha evidentemente bisogno di circolare a benzina anzichè a metano.

Ringraziando, con distinti saluti.

OFFICINE GALILEO
della Societa' Adriatica di Elettricità
FILIALE DI FIRENZE

[Handwritten signature]

Will you, please, recommend the attached application for extension of permit of circulation with gasoline in regard of our truck FI 856 which must be used for connection with the various electric plants where we are working, and therefore needs to make use of gasoline instead of ~~xxx~~ methan gas.

Thanks.

Ep.c.

ALLEGATO: una domanda

3240

*(Approval recommended
by Capt. Lovelock)*

22/3/45

C. P. E. Firenze 91516
Casella Postale 454
Telefono multiplo numero 41-345



Telegrammi GALILEO - Firenze
Conto Corrente Postale n. 5/1188
Motri OFFICINE GALILEO - Firenze - Rifredi

OFFICINE GALILEO FIRENZE

DELLA SOCIETA ADRIATICA DI ELETTRICITA - SEDE IN VENEZIA - CAP. VERB. L. 1.289.000.000

FIRENZE, 21 Marzo 1945
VIA CARLO BINI, 44

CONSIGLIO PROVINCIALE ECONOMIA

Da citare nella risposta

Segr. 003014

FIRENZE

OGGETTO: Domanda di sblocco vetri
da finestre e vetro rigato o stampato

Le nostre Officine sono state incaricate di importanti lavori di riparazione agli impianti delle centrali elettriche delle zone già liberate dell'Emilia e della Romagna, e probabilmente lo saranno successivamente anche per altre: esse dovranno perciò rimettere in efficienza nuovi reparti dello Stabilimento, danneggiati durante l'occupazione dai guastatori tedeschi.

Dovendo provvedere alla copertura di tali reparti, costruiti a sheds, in cui buona parte dei vetri sono andati in pezzi, esse domandano lo sblocco a loro favore di mq. 600 di vetri da finestre e di mq. 3200 di vetro stampato o rigato, per coperture di sheds presso le Vetrenie di Empoli o altrove.

Alleghiamo una distinta delle lastre di vetro rigato che ci occorrerebbero, mentre il vetro da finestre potrebbe essere in fogli interi, provvedendo noi a tagliarlo in modo da averne la massima utilizzazione.

OFFICINE GALILEO
VIA CARLO BINI, 44
FIRENZE

[Handwritten signature]

3239

Mp.c.

[Handwritten signature]

UN ALLEGATO

ELENCO VETRI

reg. di sched.

42 x 460	n° 5	}	anche in 2-3 pezzi ciascuno
45 x 460	" 5		
48 x 460	" 15		
48 x 268	120		
48 x 280	700		
51 x 163	45		
51 x 175	150		
51 x 180	50		
51 x 250	1000		
51 x 275	150		
51 x 278	10		
54 x 280	215		
57 x 210	15		

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

Firenze, Via Cerratani 6
Telefono 1153
19 Marzo 1945

Spett. Direzione Amministrativa
Officine Galileo
Firenze

Abbiamo preso visione della copia del Decreto del Tribunale di Roma concernente la nomina del Prof. Manzetti a Commissario della "Officine Galileo" da Voi rimessaci con la Vostra n° 002761 del 13 corrente, e qui unita Ve la ritorniamo, distintamente ringraziandovi.

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

1 allegato

3237

OFFICINE GALILEO
FIRENZE

Firenze, 13 Marzo 1945

602761

Sig. Magg. BELL

presso Soc. Elettrica del Valdarno

FIRENZE

D'ordine del nostro Prof. Manzetti ci pregiamo rimetterLe
qui unita, copia autentica del Decreto del Tribunale di Roma in
data 11 Novembre 1944 della sua nomina a Commissario delle Offi-
cine Galileo.

Distinti saluti.

OFFICINE GALILEO
IL DIRETTORE AMMINISTRATIVO
(Michelangelo Mancini)



N°1 allegato

Man/Lu

3236

COMANDO 5a ARMATA
A.P.O. 1/4, ESERCITO DEGLI S.U.
ORDNANCE SECTION

Memorandum: RO-488

27 Feb 1945

A: Public Works and Utilities Sub-Commission, Allied Commission.

Ordine di sblocco

..F22..

Rilascio locale bloccato per uso militare

1. Il materiale sottosierato e col presente atto libero di essere da voi requisito ed acquistato secondo le norme vigenti:

1. Authorization is given to manufacture and repair power plant equipment, particularly precision machine and electrical work, as you may order.

2. This release order covers only the use of foundries and machine shop facilities of this firm and does not authorize use of stock materials now on hand at this firm without specific approval of the Fifth Army Ordnance Purchasing and Contracting Officer. Fifth Army Ordnance reserves the right to at any time divert the use of all or part of these facilities to Army Ordnance projects, if and when immediate military needs so dictate.

3. Fifth Army Ordnance will not be held responsible for any claims resulting from performance of above work.

2. Il materiale e' ora bloccato dall' A.M.G. per ordine del Generale Comandante la 5a Armata, nella localita' seguente:

Galileo

Per il Ufficiale Ordnance dall' Armata:
(For the Army Ordnance Commander)

Wayne G. Higgins
WAYNE G. HIGGINS
Lt. Col., ~~XXXX~~ Ordnance
Purchasing and Contracting
Officer

Controfirmato dall' A.M.G.
della 5a Armata

OFFICIAL:

May Asquith
cc: Destinatario
proprietario o rappresentante.

3235

Traduzione

COMANDO 5a ARMATA

Memorandum: RO-487

27 Feb. 1945

A: Public Works & Utilities Sub-Commission
Allied Commission

Ordine di sblocco

per

risorse locali bloccate per uso militare

1. Il materiale sottoelencato è col presente atto libero di essere da voi requisiti ed acquistato secondo le norme vigenti:

Si autorizza la fabbricazione e la riparazione di attrezzature per centrali elettriche, specialmente la fusione e la messa in macchina di parti di turbine, come potrete richiedere.

2. Il presente ordine di sblocco concerne solo l'uso delle fonderie ed officine di codesta ditta e non autorizza l'uso di materiali depositati presso la stessa ditta senza specifica previa autorizzazione dell'Ufficiale addetto agli Acquisti e Contratti (Fifth Army Ordnance Purchasing and Contracting officer) della 5a Armata. L'Ufficiale anzidetto si riserva il diritto di destinare l'uso di tutte o parte delle fonderie ed officine suddette a progetti dell'Army Ordnance se immediate necessità militari così richiedessero.

3. Il "Fifth Army Ordnance" non sarà ritenuto in alcun modo responsabile per alcun reclamo o pretesa conseguente alla esecuzione dei su nominati lavori.

4. Il materiale è ora bloccato dall'A.M.G. per ordine del Generale Comandante la 5a Armata, nella località seguente:

Officine Galileo - Firenze

Per l'Ufficiale Ordnance della 5a Armata

firmato: Wayne G. Higgins
Tenente Colonnello Ord.Dept.
Addetto agli Acquisti ed
ai Contratti

3234

Controfirmato dall'A.M.G.
della 5 Armata

(Maggiore A.S. Austin)

Galileo. Tracking Coy moved out 25/4/45.

R/C

OFFICINE GALILEO FIRENZE

TRANSLATION

With reference to the Release order 488 of February 27 of the Fifth Army Ordnance Section concerning the use of our Workshops for repairing power plant equipments, and to the handlings in way with the Soc. Adriatica di Elettricit  for the first works of this class, we join you a copy of our letter to the Ispettorato del Lavoro, asking the derequisition by the 5 Army of some of our buildings presently occupied by Allied Forces for Trucks repairing.

As we write in said letter, we have not yet considered the much larger place necessities which will follow to the new work programm, but only the ones corresponding to the works we have already in the hands.

We beg you therefore to let us have your help for obtaining the disponibility of the buildings now asked, and of the ones we shall probably need in a near future.

N.B. By the time, we beg you to note that we have not yet got communication of the enlarged power assignation of 200 Kw. which you told us had been already granted.

72.40

*Checked with Veld. who state they have no
confirmation from 776.156,*

3232

C. P. L. Firenze 3
 Casella Postale 154
 Telefono multiplo numero 345

Telegrammi GALILEO - Firenze
 Conto Corrente Postale n. 5/1181
 Morci OFFICINE GALILEO - Firenze - (liberi)

OFFICINE GALILEO FIRENZE

DELLA SOCIETÀ ADRIATICA DI ELETTRICITÀ - SEDE IN VENEZIA - CAP. VERS. L. 1.280.000.000

FIRENZE, 12 Marzo 1945
 VIA CARLO BINI, 44

ISPETTORATO DEL LAVORO

Da citare nella risposta
 Segr. 602773

FIRENZE

OGGETTO. Richiesta di derequisi-
 zione parziale di Stabilimenti
 Industriali necessari per biso-
 gni civili.

La sottoscritta Ditta domanda una derequisizione parziale
 dei suoi Stabilimenti, in base a quanto appresso:

- 1 - Nome della Ditta: OFFICINE GALILEO della Società Adriatica di
 Elettricità
- 2 - Ubicazione dello Stabilimento: Via Carlo Bini n° 44
- 3 - Natura dell'attività produttiva: ottica, meccanica, elettro-
 tecnica
- 4 - Attuali condizioni degli uffici ed impianti: una parte degli
 stabili è stata danneggiata gravemente durante il periodo di
 emergenza: ora in parte riparata o in corso di riparazione;
 altra parte rimasta sana è già in piena attività: è però di-
 ventata insufficiente.
- 5 - Alcuni dei locali abbastanza sani e molti dei locali danneggia-
 ti (specie alle coperture) sono occupati, in seguito a regola-
 re ordine di requisizione n. 332 del 13.10.44 della Real Estate
 Section - HQ Florence Command - dal 188 Ord. Bat'n, con alcune
 sezioni di riparazione autocarri (officine e alloggio del per-
 sonale)
- 6 - La derequisizione parziale viene richiesta dalla nostra Socie-
 tà: la richiesta è limitata ad alcuni degli stabili, come indi-
 cato nella pianta allegata
- 7 - La derequisizione è necessaria per permettere un aumento dei re-
 parti efficienti delle nostre officine, aumento previsto, oltre
 che per ridare lavoro ad una maggior parte delle nostre mae-
 stranze, per sopperire alle moltissime riparazioni occorrenti
 alle Società Elettriche (in specie alla Valdarno, per la quale
 già lavoriamo molto) e alle Società appartenenti al nostro

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gruppo (la nostra Azienda fa parte, ricordiamo, della Società Adriatica di Elettricità) sia nelle zone dell'Emilia già liberate, sia in quelle del restante dell'Emilia e del Veneto con le quali è ormai da presumere prossimo il collegamento. Altra parte dei locali, tra quelli già da noi occupati e quelli richiesti, è destinata alla costruzione di macchine tessili, pure urgentemente richieste per ora dalle industrie di Prato, per ripristinare i loro impianti distrutti.

- 8 - Il lavoro di cui sopra è già avviato: per qualche tempo, sia trattandosi in buona parte di riparazioni, sia con gli sblocchi avuti, le materie prime sono praticamente assicurate; per l'energia elettrica abbiamo avuto assicurazione che una nostra domanda di aumento di assegnazione è stata accolta. Per il carbone, riteniamo poter provvedere sufficientemente con le assegnazioni che stiamo domandando. Per la mano d'opera, infine, non abbiamo che la difficoltà della scelta tra le nostre precedenti maestranze, dato che da circa 5000 operai siamo dovuti scendere a circa 500: quando avessimo i locali di cui chiediamo la derequisizione potremmo risalire un po' oltre il migliaio.
- 9 - La capacità produttiva, grazie al macchinario rimasto sano, a quello danneggiato che via via ripariamo, a quello che abbiamo provveduto ad acquistare di recente, è proporzionata al numero di operai sopradetto. La produzione è nei seguenti campi:
 - Riparazione e costruzione di strumenti di misura e apparecchiature elettriche; di trasformatori di potenza e di misura
 - Riparazione di motori elettrici
 - Costruzione di telai tessili
 - Costruzione di lenti da occhiali
 - Costruzione di strumenti topografici
 - Lavori vari di ottica e meccanica.

Abbiamo dedicato, come si vede, una quota sensibile di lavoro alle riparazioni, contrariamente alle nostre precedenti consuetudini, per evidenti motivi di interesse generale, anche se la cosa risulti per noi più pesante.
- 10 - Non abbiamo per ora presentato esplicitamente altre domande di derequisizione, ma solo trattato direttamente col reparto occupante per non estendere oltre l'occupazione stessa e per qualche piccola sostituzione di locali.
- 11 - La derequisizione dei locali richiesti, indicati nella pianta unita, è particolarmente opportuna perchè si tratta di locali solo moderatamente danneggiati, la cui ricopertura non richie-

T r a n s l a t i o n

OFFICINE GALILEO

Florence, 12th March 1945

TO: Ispettorato del Lavoro
F i r e n z e

SUBJECT: Application for partial derequisitioning of industrial establishments required for civilian needs.

The undersigned Firm applies for the partial derequisitioning of its establishments be granted, in view of what follows:

1. Firm: OFFICINE GALILEO of Società Adriatica di Elettricità
2. Location of establishment: Via Carlo Bini, 44 - Florence
3. Kind of production: optical, mechanical, electrotechnical.
4. Present conditions of offices and facilities: some of the buildings have been damaged during the emergency period; now partially repaired or being repaired; another part is sound and is in full activity, but is now insufficient.

5. Some of the premises partially sound and many of the damaged premises (especially ⁱⁿ the roofing) are now occupied - following to order of requisition n° 332 of Real Estate Section H.Q. Florentine Command, 188 Ordn. Btn, dated 13/10/44, by some truck repair departments (workshops and housing of personnel).

6. Partial derequisitioning is applied for by our Company, limited to some of the buildings as shown in the attached map.

7. Derequisitioning is necessary to allow an increase of the efficient departments of our works in order to employ the major part of our staff and to achieve the numerous repairs required by Electrical Societies (specially by Valdarno Co, for which we are making good work) and to Societies belonging to our group (we remind you that our Firm is a branch of Società Adriatica di Elettricità) as well in zones of liberated Emilia as in the remainder of Emilia and of Veneto, with which connection is foreseen in the near future. Some other parts of the premises - partially being actually occupied by us and partially required, is scheduled to be used in the construction of weaving machines, urgently required by Prato industries to rehabilitate their destroyed plants.

8. The above mentioned work has already started; raw materials are ensured for some time either because it is a matter of repairs, or obtained by release orders. For the electric power we have been promised an increase of allocation which we have applied for. We believe to be able to provide

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sufficient coal by means of the allocation we are applying for. For manpower we can easily make our choice amongst our former personnel, considering that our pre-war figure was 5000 work-people and is now 500. Would the premises be obtained, we could employ more than 1000.

9. The production capacity, due to undamaged materials, to gradual repairing of damaged materials and to material recently purchased, is in accordance with the above quoted number of workpeople. The production is as follows:

- Repair and construction of measuring instruments and electrical apparatus; of transformer of power and of measure.
- Repairs of electric motors.
- Construction of weaving looms.
- " of eyeglasses
- " of topographic instruments

~~Various optical and mechanical works.~~

- Various optical and mechanical works.

Great part of the work has been devoted to repairs, as shown above, despite our previous customs, for a reason of general benefit, although this is heavier for us.

10. Till now no other application for derequisitioning has been forwarded, the matter has only been dealt with directly with the occupying Unit, asking the occupation not to be further extended, or some premises to be changed with others.

11. Derequisitioning of the required premises, as shown in the attached map, is specially convenient because these are slightly damaged and their roofing and repairs would not require a big amount of bricks or glasses, as well as because the premises are suitable for work of heavy and huge apparatus, and are conveniently located respect other efficient departments of the plant, not interfering with pass for Allied Forces.

We must bring to your attention that, following to recent dispositions that we have received, and to arrangements in hand between A.M.G. Commission and Società Adriatica di Elettricità (holding Society of our Firm) important and vaste works of repairs of electric plants will be assumed, and consequently the need of premises will be increased to a not yet definite but certainly remarkable extent.

SOCIETA' GALILEO

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T r a n s l a t i o n

OFFICINE GALILEO

Florence, 12th March 1945

TO: Ispettorato del Lavoro
F i r e n z eSUBJECT: Application for partial derequisitioning of industrial establishments required for civilian needs.

The undersigned Firm applies for the partial derequisitioning of its establishments be granted, in view of that follows:

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4. Present conditions of offices and facilities: some of the buildings have been damaged during the emergency period; now partially repaired or being repaired; another part is sound and is in full activity, but is now unsufficient.

5. Some of the premises partially sound and many of the damaged premises (especially ⁱⁿ the roofing) are now occupied - following to order of requisition n° 332 of Real Estate Section H.Q. Florence Command, 186 Ordn. Btn, dated 13/10/44, by some truck repair departments (workshops and housing of personnel).

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8. The above mentioned work has already started; raw materials are ensured for some time either because it is a matter of repairs, or obtained by release orders. For the electric power we have been promised an increase of 32% which we have applied for. We believe to be able to provide

sufficient coal by means of the allocation we are applying for. For manpower we can easily make our choice amongst our former personnel, considering that our pre-war figure was 5000 work-people and is now 500. Would the premises be obtained, we could employ more than 1000.

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- Construction of weaving looms.
- " of eyeglasses
- " of topographic instruments

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We must bring to your attention that, following to recent dispositions that we have received, and to arrangements in hand between A.M.G. Commission and Società Adriatica di Elettricità (holding Society of our Firm) important and vaste works of repairs of electric plants will be assumed, and consequently the need of premises will be increased to a not yet definite but certainly remarkable extent.

SOCIETA' GALILEO

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

Florence, 6 Via Cerretani
Telephone n° 1153
13th April 1945

SUBJECT: Reports.

Ref. : 5/1 AC/ab

TO : Major Gaither
Engineer Officer
A.M.G. 5th Army

Ref. telephone conversation Major Crowther - Major
Gaither, even date.

Enclosed are copies of reports and recommendations
to bring your file up to date.


A. Crowther, Major

5 enclosures

report Gaither 22/3 Santa Maria Plant
annex 27/3
report Major Crowther 20/3
letter Major Bell 28/3
" " " " in Oct 1944

3225

File
April 5th 1945

Trip to Santa Maria and Le Piane
with Eng. Di Lella, Officine Galileo.

At Santa Maria rubbish and debris has been well cleared allowing close inspection of damages, which were much greater than were evident on first inspection of 28th Feb. before plant was cleared. In addition to damage caused by building collapse, alternators were mined in lower half and all alternator frames broken, both exciters wrecked beyond repair and all regulators ruined as well as the cases and two Pelton wheels of the turbine.

The crane has been dismantled and will require a number of castings in addition to replacement or straightening of one girder which they propose to haul out for repair.

A sufficient number of oil circuit breakers, two current transformers and one potential transformer appear to be in fair conditions.

The only ingress to plant from Castiglione de' Pepoli is a very steep and rough trail which Capt. Barnes, C.A.O., proposes to repair, still this and the transportation requirement constitute a major problem. Plant was built in 1910 when materials and machinery were let down hill on skids in snow. Apparently nothing has ever been brought out.

There remains a question of transmitting any power generated here as it formerly was transmitted to Bologna over two 50 KV lines (transformers to be repaired are 5/50 KV). There are no lines near into which 50 KV can be tied and utilization of this 2,000 KW will apparently depend on line repairs and finding a good transformer near Bologna.

Also visited Le Piane, 12 Km below Santa Maria.

Capo centrale is Ferdinando SEVERIN. Station consisted of two 5,000 KW machines mainly used to improve power factor, with necessary switchgear and transformers. Plant is completely destroyed beyond repair, the only piece of apparatus appearing worthy of repair being one 50 KV poten-

7 de Santa Maria
fob

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

Florence, 6 Via Cerretani
Telephone n° 1153
28th March 1935

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 in view of the small amount of power being made available, the length of time involved, 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.

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

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

Copy to Col. Smith
" " Major Gaither, Eng. O. AMG 5th Army

3222

Firenze, 6 Via Corretani
16 Marzo 1945

Dr. Manzetti,

I qui uniti disegni sono stati portati a questo Ufficio del Capt. George BERNES, Ufficiale degli Affari Civili in Castiglione de' Pepoli, e Le vengono trasmessi per quello che possano contenere di utile.

Le consigliamo di avvertire il Capitano Barnes della Sua presenza arrivando a Castiglione, e di presentargli l'Ing. Ambrosini il quale, a quanto ci risulta, rimarrà sul posto. Potrebbe darsi che l'Ufficiale degli Affari Civili possa essere di grande aiuto all'Ing. Ambrosini.

Se lo desiderano egli potrà fornirli di un rapporto, in Italiano, che è stato redatto da alcuni ingegneri che lavorano con lui.

 3219

HEADQUARTERS
AMG FIFTH ARMY
APO 464 U.S. ARMY

DMG/cpn

March 13, 1945

205/15

*Charles
Dunn
File
Lab*

SUBJECT: Santa Maria Power Station.

TO : Major Bell, Elect. Div. Allied Commission, c/o Toscana
Region.

1. Attached are two original tracings and a copy of report
on S. Maria station submitted by Italians through SCAO 2nd Corps
for any action desired.

For the Commanding General:

[Signature]
D.M. GAITHER,
Major, CMP,
Engineer Officer,
AMG Fifth Army.

Copy to: S.C.A.O. II Corps.
205/9

Copy to Dr Manzetti 15 Mar 45

3209

Copy for file

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

3rd Ind.

Florence, 6 Via Cerretani

Telephone n° 1153

13th March 1945

Reference: S/1 ABD/ab

SUBJECT : Rehabilitation Santa Maria Power Station.

TO : Eng. O, 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. O, 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 development.

Robert A. Bell

Major S.C.

08200 in charge

C o p y

INTEROFFICE REFERENCE SHEET FIFTH ARMY

OFFICE	ENGR HQ	FILE NO V/142/4	SUSPENDED DATE
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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 SESTAZIONE Power Station. Herewith a copy of Engineer P.B.S. Inspection Notes on SANTA MARIA.

2. A.P. 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 SESTAZIONE has not yet been inspected as this is reported to be in 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.R.,
EXECUTIVE

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

For the Comdg. General:

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

3199

C o p y

INTEROFFICE REFERENCE SHEET FIFTH ARMY

OFFICE	ENGR HQ	FILE NO	V/142/4	SUSPENDED DATE
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D.M. GAITHER
Major, CMP
Engineer Officer
AMC Fifth Army.

3198

Completed ✓LondonFile leftHEADQUARTERS
AMC FIFTH ARMY
APO 464 U.S. ARMYDate: 9 Nov. 1945.

Chief of Staff
Admin. Officer
Operations Officer
Asst. Operations Off.
Public Safety
Economics & Supply
✓ Engineer <u>Wm. Bell</u> % <u>Toscano Reg</u>
Public Health
Finance
Legal
Refugee
Agriculture
Fine Arts
Labor
Clerk

Information
Notations and Return
Comments
Approval
Signature
Necessary Action
Signature and Dispatch
Action Desired
Recommendations
File
Circulation
Index
Distribution

Remarks: Further to letter 20th Feb. 205/15, par.
4, 1st and Inventory of Ca'di Landino, Ry. substation

From:

Wm. BellO. M. GAITHER
P. M. G. P.

3197

HEADQUARTERS
AMG FIFTH ARMY
APO 464 U.S. ARMY

Date: 2 Mar 1945.

Chief of Staff
Admin. Officer
Operations Officer
Ass't. Operations Off.
Public Safety
Neonatics & Supply
Engineer
Public Health
Finance
Legal
Refugees
Agriculture
Fine Arts
Labor
Clery
✓ Maj. Bell, % Florence Prod.

Information
Notations and Return
Comments
Approved
Signature
Necessary Action
Signature and Dispatch
Action Desired
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File
Circulation
Index
Distribution

Remarks: How about the A. Macia plant? Can you
give me an estimate now?

From: MBG

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ENGINEER SERVICE
PENINSULAR BASE SECTION
A.P.O. 782

GC/fp

19 January 1945

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

Inspection of the power station was made on 13th January by Lt-Col. G. Cooley, Engineer Service, P.B.S. and Major F.W.H. Tuckett, 543rd Electrical and Mechanical Company, R.E. Information regarding the reservoir, dam and flow lines was obtained from the Chief of the Station, Sig. De Sordi. The station is the property of "Società Bolognese di Eletticità" and is connected to its 50 Kv transmission system.

Reservoirs, Dams and Flow Lines.

A masonry dam 158 meters long with maximum height of 33.5 meters is located on the Bracimone River above the plant. Full lake elevation is 829.5 meters above sea level. Storage capacity is 7,000,000 cu.m.; the dam and control gates (which are of the butterfly valve type located in the exit pipe) are reported to be undamaged.

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

Power Station.

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

The principal items of the installation consisted of:

a) - 3 2000 KW (2300 KVA), 5000 volt 3 phase, 42 cycle, 420 rpm, A.E.G. generators direct connected to Escher Wyss, impulse, horizontal shaft turbines. One of these machines was suitable for 50 cycle operation.

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

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c) - 3 2500 KVA, 5/50 KV, 3 phase, 42 cycle, water cooled transformers.

1 2000 KVA, 5/15 KV, 3 phase, 42 cycle, water cooled transformer.

d) - Switchgear of 5.15 and 50 KV.

e) - 1 18 ton traveling crane in turbine room

1 14 ton crane at end of transformer room

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

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

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

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

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

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

Practically no spare parts are available at the station. Switchgear is practically undamaged.

Conclusions.

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

Although the plant was damaged 3½ months ago, practically

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nothing has been done to clean it up or prepare it for rehabilitation.

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

G. COOLEY
Lt-Colonel, C.E.

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3192

ENGINEER SERVICE
PENINSULAR BASE SECTION
A.P.O. 782

GC/fp

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ENGINEER SERVICE
PENINSULAR BASE SECTION
A.P.O. 782

GC/tp

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