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

ACC 083/PWU

10000/150/353

DAMAGE TO
ETC.
SEPT. 1943

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

0000/150/353 DAMAGE TO PUBLIC UTILITY SERVICES, ETC.
SEPT. 1943 - JULY 1946

ACC/083/PWU

DAMAGE TO "PUBLIC UTILITY

"

SERVICES ETC

~~"SECRET"~~ Downgraded 6 Aug 1946 with toughen major C+ Ord + Ch. 1st C

083/PWU DAMAGE TO PUBLIC UTILITIES

Sept 1943

Opened ~~26 March 44~~

Closed- 10- July- 46

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

083/PWU DAMAGE TO PUBLIC UTILITIES

Sept 1943
Opened ~~26. March 44~~
Closed- 10. July. 46

12/43
083

6

10000 / 150 / 353

THIS FOLDER
CONTAINS PAPERS
FROM SEPT 43
TO JULY 46
CATALOGUE-

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

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

AY/LWL/mc

File

HEADQUARTERS ALLIED COMMISSION
APO 794
Industry and Utilities Branch

Ref.: 083/PWU

10 July 1946

SUBJECT : U/G Cable Breakdown Loiano - Florence

TO : Director, Communications Sub-Commission.

Reference your letter T.64.121.CS dated 2 July 46.

1. Confirming telephone conversation between Major Laughlin and Major Holland, the enclosed correspondence is forwarded for your information.

2. The Ministry of Public Works has notified this office that necessary measures have been taken to avoid a possible repetition of breakdowns in communications.

3. Should any further interruptions occur, kindly notify this office at once, in order that the matter may be again taken up with the proper civil authorities.

L.W. LAUCHLIN
Major, C.E.
A/Dep. Director.

6 Enclosures: - Memo. dated 29 June 1946 from Ind.& Util.Br. to Comm. S/C.

letter dated 27 June 1946 from Min.Pub.Wks. to A.C. (English & Italian)

Memo. dated 15 June 1946 from Ind.& Util.Br. to Comm. S/C.

Cable dated 14 June from Min.Pub.Wks. to Provv. for Pub.Util., Florence (English & Italian)

5984

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

COPY

HEADQUARTERS ALLIED COMMISSION
APO 794

Inter-Office Memorandum

29 June 1946

Ref: 08 3/Pwar

Col. Miller

Communications S/C

With further reference to the damage to the telephone cable between Florence and Bologna there is attached for your information copy of letter from the Ministry promising that extreme care will be used in the future on construction works in the vicinity of the cable.

L.W. LAUGHLIN,
Major, C.E.,
Ind.& Util. Branch.

5979

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

COPIA

MINISTERO DEI LAVORI PUBBLICI
Gabinetto

N° 6251

Roma, 27 Giugno 1946

A.C. HEADQUARTERS INDUSTRY AND
UTILITY BRANCH

ROMA

OGGETTO: Strada statale n. 65

Con riferimento alla comunicazione verbale di codesta Onorevole Commissione, relativa all'interruzione, a causa di lavori stradali, del cavo telefonico nazionale lungo la strada statale n.65 presso Montecarelli, si comunica che il Provveditorato regionale alle opere pubbliche di Firenze, in risposta alla segnalazione telegrafica di questo Ministero, ha assicurato di aver adottato i provvedimenti atti ad impedire il ripetersi del danno.

IL MINISTRO
f.to: Bruno

5978

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

C O P Y

MINISTRY OF PUBLIC WORKS

27 June 1946

Subject : Highway Nº 65

To : A.C. H.Q. Industry & Utilities Branch

With reference to verbal information from A.C., concerning interruption of the national telephone cable due to repair work on highway 65, we inform you that the Regional Provveditorato for Public Utilities at Florence replied to our cable stating that measures had been taken to avoid a repetition of the trouble.

for the Minister

/s/ Bruno

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

COPY

15 June 1946

ref 043/1 Wil

Col. Miller

Communications S/C

As a result of your telephone call the Ministry Public Works has sent out the attached cable regarding the interruptions on the Florence Bologna telephone cable. Will inform you if anything further develops.

L.W. LAUGHLIN
Major C.E.
Ind. & Util.S/C

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

COPY

14 June 1946

PROVVEDITORE OPERE PUBBLICHE

FIRENZE

Gab.n. 5999 - Commissione Alleata habet informato che lungo strada 65 tratto Bologna Firenze presso Montecarelli lavori stradali hanno danneggiato cavo sotterraneo provocando interruzione anche tra comunicazioni alleate Alt Pregasi riferire subito et provvedere at evitare simili inconvenienti per avvenire.

MINISTRO

f.to : Bruno

5975

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

COPY

MINISTRY OF PUBLIC WORKS

14 June 1946

TO : Provveditorato for Public Utilities - Florence

Gab. nº 5999 -

Allied Commission reported that repair works on highwey 65, Bologna-Florence section, near Montecarelli have damaged underground cable thereby also cutting allied communications. Please report immediately and take necessary measures to avoid repetition of trouble in the future.

for the Minister

/s/ Bruno

5974

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

C83/Pwe

HEADQUARTERS ALLIED COMMISSION
APO 794
Communications Sub-Commission

T.64.121.CS

2 July 1946

SUBJECT : U/G Cable Breakdown Loiano - Florence

TO : Director, Industry and Utility Branch
of Economic Section

1. You are requested to make strong representations with the Ministry of Public Works regarding four serious breakdowns in the Loiano-Florence U/G Telephone cable in the neighbourhood of MONTECARELLI in June caused by careless use of picks by workmen in the employ of Rag. RUBINI of Barberino del Mugello who has the contract for the repair of that Section of the main Bologna Florence road.

2. Works foreman Sig. DELERIO was warned several times by the cable maintenance personnel to work carefully and avoid cutting the cable sheathing.

3. It is needless to stress the seriousness of the breakdowns which directly affect military traffic and it could be pointed out that if further interruptions occur Allied Military authorities will be forced to order an investigation of suspected sabotage.

INDUSTRY & UTILITIES S/C
3 LUG 1946
Allegato

A.C. HOLLAND
Major, R. Sigs.
O i/c Comm. S/C.

5 July 46 talked to Major Holland on this and referred him to the two notes which I had previously sent to Communications S/C outlining the steps which the Ministry of Public Works had taken to avoid 597 these troubles. Reference is made to Loiano.

13/d Wpn Laughlan

Wpn Laughlan
maj c.E.

Ministero dei Lavori Pubblici

GABINETTO

Roma, 27 GIU. 1946

N. 6251

A.C.HEDQUARTERS INDUSTRY AND
UTILITY BRANCH

ROMA

OGGETTO: Strada statale n.65

Con riferimento alla comunicazione verbale di codesta Onorevole Commissione, relativa all'interruzione, a causa di lavori stradali, del cavo telefonico nazionale lungo la strada statale n.65 presso Montecarelli, si comunica che il Provveditorato regionale alle opere pubbliche di Firenze, in risposta alla segnalazione telegrafica di questo Ministero, ha assicurato di aver adottato i provvedimenti atti ad impedire il ripetersi del danno.

IL MINISTRO

Bucci

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

N.° 6251

A.C. HEDQUARTERS INDUSTRY AND UTILITY BRANCH

ROMA

OGGETTO: Strada statale n.65

Con riferimento alla comunicazione verbale di codesta Onorevole Commissione, relativa all'interruzione, a causa di lavori stradali, del cavo telefonico nazionale lungo la strada statale n.65 presso Montecarelli, si comunica che il Provveditorato regionale alle opere pubbliche di Firenze, in risposta alla segnalazione telegrafica di questo Ministero, ha assicurato di aver adottato i provvedimenti atti ad impedire il ripetersi del danno.

IL MINISTRO

Bruno

5972

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

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

I.

2 - copy (1)

14 GIU. 1946

PROVVEDITORE OPERE PUBBLICHE

FIRENZE

Gab.n. 5999 - Commissione Alleata habet informato che lungo strada 65 tratto Bologna Firenze presso Montecarelli lavori stradali hanno danneggiato cavo sotterraneo provocando interruzione anche tra comunicazione alleate Alt Pregasi riferire subito et provvedere at evitare simili inconvenienti per avvenire.

MINISTRO

Gio Bruno

copy sent to Col. Anglo Commissione for info ma 15 Jan 46

5971 e.b.

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

HEADQUARTERS ALLIED COMMISSION
APO 794
Industry and Utilities Branch

MEMORANDUM

083/IWU 22 May 1946

SUBJECT: Damage to Telephone Systems, Udine - 26 April 1946

TO : Director of Communications, A.C.

1. Reference cable 6 May 1946 AFHQ Long Lines Liaison Office Bologna F.C.; SG 439.0163 66.

2. Per your verbal request, we are enclosing copy of letter received from A.M.G. 13th Corps stating that inquiry of the utility companies serving that area report nothing extraordinary on the night of the trouble.

3. The Court of Enquiry referred to in the attached letter may bring out some information.

LOUIS W. LAUGHLIN
Major, C.E.
Acting Deputy Director

2 Enclosures - letter from Headquarters Allied Military Government, 13th Corps, dated 16th May 1946, to Allied Commission, reference 130/AMG/XIII/U-405

letter from Allied Commission, dated 10 May 1946, to Headquarters Allied Military Government, reference 083/IWU

5970

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

083/PWU

JWBB/CI

HEADQUARTERS
ALLIED MILITARY GOVERNMENT
13 CORPS

TELEPHONE No.: 66-42 ext. 13

REFERENCE No.: 130/AMG/IND/U-405

Date: 16th May 1946

SUBJECT : Damage to Telephone Systems, Udine

TO : HEADQUARTERS ALLIED COMMISSION A.P.O. 794
Industry & Utilities Branch.

Your 083/PWU dated 10.5.1946 refers.

1. Enquiries have been made as requested, but the Societa Elettrica della Venezia Giulia, who operate in Gorizia and the remainder of Zone "A" report nothing extraordinary on the night of the 26th April.

2. It is understood that a certain Major Williams at present in Venice, and who is apparently in charge of these Military exchanges is holding a Court of Enquiry into the matter, and it is suggested you contact him with a view to receiving a copy of the proceedings. In alla probability the A.C.L.O. at Treviso could do this.

For the Senior Civil Affairs Officer :

for J.E. FODEN Captain
Lt.Col.G/L
Chief Industry & Utilities Offr.

INDUSTRY & UTILITIES
10 MAG 1946
Utilities

5969

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

Tel: 489083
Ext: 327

SECRET

131/oc

HEADQUARTERS ALLIED COMMISSION
APO 794
Industry and Utilities Branch

file 41

083/PRU

10 May 1946

SUBJECT: Damage to Telephone Systems, Udine

TO : Headquarters, Allied Military Government
15th Corps
(Attn: E. H. Richardson
Major, F. A.
Chief Public Works Officer)

1. The attached cable deals with a situation which developed on the morning of 26 April.

2. From all indications the cause was a high voltage power line coming in contact with the telephone system probably in the vicinity of Udine since most of the damage seemed to be centralized in that section.

3. We desire to know the cause of the trouble as a matter of information in order to determine whether there would be a possibility of a repetition and would appreciate it if you would make inquiry of the power company operating in that area as to the location and cause.

LOUIS W. LAMOREUX
Major, C.E.
Acting Deputy Director

1 Enclosure - Cable H/2697 from AFHQ, Bologna, to Allied Commission, dated 6 May 1946

SECRET

5968

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

COPY

INCOMING MESSAGE

Headquarters Allied Commission

Originator's Ref.: BC 439.SIGS 66 Message Centre No: H/2697

Date/Time of Origin: 6MAY1015B Date Time Rec'd: 6MAY 12005

FROM: AFHQ LONG LINES LIAISON OFFICE BOLOGNA F.C. Precedence: ROUTINE

TO : DIRECTOR COMMS SUB-COMMISSION A.C

RESTRICTED.

1. AT 0200 HRS ON 26/4/46 THE INTERNAL CABLING AT UDINE NO BETWEEN INTERNAL C/H ROUTES AND THE MDF CAUGHT FIRE. SHORTLY AFTERWARDS SEVERE ARCING AND BURNING OF QUAD CABLES ON THE TERMINAL POLE OF DAF-M/S ROUTE WAS SEEN.

2. 9109 FIRE FIGHTING SECTION WAS CALLED AND QUENCHED FIRE WITHIN THE BUILDING BUT WAS UNABLE TO CONTROL FIRES ON O/H ROUTES DUE TO CONTINUED PRESENCE OF VERY HIGH VOLTAGES.

3. BOTH THE CIVILIAN RAILWAY AND ELECTRICITY COMPANIES WERE CONTACTED BY PHONE AND REQUESTED TO SWITCH OFF HIGH TENSION FOR A SHORT PERIOD TO ALLOW LINEMEN TO CUT OUTS TO LOCALISE FIRES. THEY REPORTED NO FAULTS LOADS ON ANY FEEDERS. THE ELECTRICITY COY SENT A REPRESENTATIVE WHO MADE A CHECK WITH LT MACFIELD R SIGNALS OF ALL CCTS BETWEEN M/S AND DAF M, AS THIS ROUTE WAS SUSPECTED AS THE CAUSE OF THE INITIAL DAMAGE. NO VISIBLE EVIDENCE COULD BE FOUND.

4. AT 0630 HRS THE HIGH VOLTAGES AND FIRES ON TAIL OF ALL O/H ROUTES CEASED AND LINE PARTIES COMMENCED TO RE-LAY QUAD TAILS FROM TERMINAL POLES TO THE MDF.

5. VE 12 ROUTE WAS FOUND TO BE UNDAMAGED AFTER TAILS WERE REPLACED AND ALL CCTS ON THIS ROUTE WERE THROUGH AND WORKING BY 1530 HRS.

6. DAF ROUTE. WHEN THE BURNED TAILS WERE CUT AWAY ONLY 2 QUADS WERE FOUND TO BE THROUGH. OTHER PAIRS WERE BURNT AT RAILWAY CROSSING. NO EVIDENCE WAS FOUND THAT POWER HAD CONTACTED THIS ROUTE.

5967

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

7. B ROUTE NORTH. POTENZA TP SUFFERED BURST TAILS AND FRAME. LINE PARTY REPORTED CABLE BURNT OUT ON VARIOUS PADS AT ARTEGNA. CERVIGNETTO. AND PERARIA BRIDGE. AT TIME OF THIS REPORT PHYSICAL CHECK OF B ROUTE NORTH IS NOT COMPLETED. BUT SO FAR NO EVIDENCE OF POWER CONTACTS HAD BEEN FOUND.

8. C O F A ROUTE APPEARS UNDAMAGED AFTER TAILS HAVE BEEN REPLACED 3 PRS ARE NOW WORKING. 3 AIR FORMATION SIGNALS ARE PHYSICALLY CHECKING THIS ROUTE BUT SO FAR HAVE DISCOVERED NOTHING.

9. 88 DIV U S ARMY CCTD. THE QUAD HEAD ... INS TO M/C WERE BURNT. THESE REPLACED BY US ARMY SIGNAL CORPS WHO LOCATED ADDITIONAL FAULTS DUE TO CHARRING IN THE VICINITY OF 25 FIELD HOSPITAL (UCHRS). THE USA SIG CORPS HAVE FOUND NO EVIDENCE OF CONTACTS WITH HT POWER.

SUMMARY.... AS THE DAMAGE ON MAIN AND EVEN ROUTE WAS CONFINED IN THE IMMEDIATE VICINITY OF M/C IT APPEARS THAT THE HIGH TENSION POWER WAS CONTACTED LOCALLY. BUT EXTENSIVE INVESTIGATION AS SHOWN PROVIDES NO INDICATION OF THE POINT OF CONTACT.

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

Restricted

COPY

BC 439.SIGS 66
6MAY1105B

H/2697
6 MAY 2200B
ROUTINE

FROM : AFHQ LONG LINES LIAISON OFFICE BOLOGNA F.C.

TO : DIRECTOR COMMNS SUB-COMMISSION A C

RESTRICTED.

1. AT 0200 HRS ON 26/4/46 THE INTERNAL CABLING AT UDINE M$ BETWEEN EXTERNAL O/H ROUTES ABD THE MDF COUGHT FIRE. SHORTLY AFTERWARDS SEVERE ARCING AND BURNING OF QUAD CABIES ON THE TERMINAL POLE OF DAF-M/C ROUTE WAS SEEN.

2. 9109 FIRE FIGHTING SECTION WAS CALLED AND QUENCHED FIRE WITHIN THE BUILDING BUT WAS UNABLE TO CONTROL FIRES ON O/H ROUTES DUE TO CONTINUED PRESENCE OF VERY HIGH VOITAGES.

3. BOTH THE CIVILIAN RAILWAY AND ELECTRICITY COMPANIES WERE CONTACTED BY PHONE AND REQUESTED TO SWITCH OFF HIGH TENSION FOR A SHORT PERIOD TO ALLOW LINEMEN TO CUT CCTS TO LOCALISE FIRES. THEY REPORTED NO EXCESS LOADS ON ANY FEEDERS. THE ELECTRICITY COY SENT A REPRESENTATIVE WHO MADE A CHECK WITH IT MAXFIELD R SIGNALS OF ALL CCTS BETWEEN M/C AND DAF HQ AS THIS ROUTE WAS SUSP ECTED AS THE CAUSE OF THE INITIAL DAMAGE. NO VISIBLE EVIDENCE COULD BE FOUND.

4. AT 0630 HRS THE HIGH VOITAGES AND FIRES ON TAIL OF ALL O/H ROUTES CEASED AND LINE PARTIES COMMENCED TO RE-LAY QUAD TAILS FROM TERMINAL POLES TO THE MDF.

5. VE 12 ROUTE WAS FOUND TO BE UNDAMAGED AFTER TAILS WERE REPLACED AND ALL CCTS ON THIS ROUTE WERE THROUGH AND WORKING BY 1530 HRS.

6. DAF ROUTE. WHEN THE BURNED TAILS WERE CUT AWAY ONLY 2 QUADS WERE FOUND TO BE THROUGH. OTHER PAIRS WERE BURNT AT RAILWAY CROSSING. NO EVIDENCE WAS FOUND THAT POWER HAD CONTACTED THIS ROUTE.

5965

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

7. B ROUTE NORTH. PONTEBBA TP SUFFERED BURNT TAILS AND FRAME. LINE PARTY REPORTED CABLE BURNT OUT ON VARIOUS PAIRS AT ARTEGNA. OSPIDALET-TO. AMD PERARIA BRIDGE. AT TIME OF THIS REPORT PHYSICAL CHECK OF B ROUTE NORTH IS NOT COMPLETED. BUT SO FAR NO EVIDENCE OF POWER CONTACTS HAD BEEN FOUND.

8. C O F A ROUTE APPEARS UNDAMAGED AFTER TAILS HAVE BEEN REPLACED 3 PRS ARE NOW WORKING. 8 AIR FORMATION SIGNALS ARE PHYSICALLY CHECKING THIS ROUTE BUT SO FAR HAVE DISCOVERED NOTHING.

9. 88 DIV U S ARMY CCTS. THE QUAD LEAD-INS TO M/C WERE BURNT. THESE WERE REPLACED BY US ARMY SIGNAL CORPS WHO LOCATED ADDITIONAL FAULTS DUE TO CHARRING IN THE VICINITY OF 15 FIELD HOSPITAL (UDINE). THE USA SIG CORPS HAVE FOUND NO EVIDENCE OF CONTACTS WITH HT POWER.

SUMMARY.... AS THE DAMAGE ON EACH AND EVERY ROUTE WAS SEVEREST IN THE IMMEDIATE VICINITY OF M/C IT APPEARS THAT THE HIGH TENSION POWER WAS CONTACTED LOCALY. BUT EXTENSIVE INVESTIGATION AS SHOWN PROVIDES NO INDICATION OF THE POINT OF CONTACT.

AC DIST

ACTN: COMMUNICATIONS
INFO: CHIEF COMMISSIONER
FILE
FLOAT

Restricted

5964

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

C 083 Lt Col Rhodes 9th Army — Re note on file. Rappee — Ravenscroft — Capt 19/9

Rome 9 Sept 44. 39

MINISTRY OF PUBLIC WORKS

This is a war damage survey undertaken by the Italians. I had requested such a survey last spring. RA 19/9

Div. 27.

No. 488

SUBJECT :

General survey of War Damages.

To Chiefs of Genio Civile
Chiefs of the Offices of the new railway constructions
and for the attention of
Public Works Sub-Commission ACC Rome

High Commissioners for the Sicily and Sardinia Cagliari-Palermo

Technical Director of Public Works Ministry

Director Generals of Public Works Ministry

Purveyors of Public Works Palermo-Cagliari

Chiefs of Regional Offices of the Genio Civile

The reconstruction and repairing of public works and public and private goods damaged by war action is one of the most difficult programme of the after-war time and this Ministry will in the near future give all his attention to this work. In order to accomplish this work the Ministry must have as far as possible the most complete and exact notion of all war damages.

It is therefore necessary to proceed to the general survey of these damages with a uniform criterion and with the utmost speed. Thus is the purpose of the present circular and I call therefore the particular attention of all the Chiefs to the fact that dispositions in it contained should be executed under their personal direction and responsibility in the shortest time and in the most scrupulous way in order to avoid - especially what concerns the financial part- badly mistaken estimates.

This Ministry is conscious of the fact that under present circumstances this work will be very difficult but as it is of vital importance to the Nation I have no doubt that the personnel will be fully conscious of its importance and will therefore fulfil his duty with the utmost abnegation.

The Ministry on his own part will take into consideration the work of all officials and will examine with benevolence the proposals of the Chiefs in order to reward the most worthy of them.

On the other part in order to get speedier in execution and to relieve the difficulties of the offices you may if you judge it necessary, ask the Administrations and public bodies the survey the damages on their own goods and works following the dispositions of this circular and submit those surveys to your control.

5963

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

This can be done also when for special reasons, for example impossibility to go to the place, it would be difficult for the offices to provide directly, especially in the case of rural habitations; in such cases the data of the local Administrations (Communes, Provincial Purveyors of Agriculture) may be used controlling if retained necessary their exactness.

The necessity and opportunity of these demands should be examined and decided immediately and the applications forwarded as soon as possible in view of time needed for the interested Administration to answer the ~~xxxxxx~~ questions.

Anyway if those who have to order the execution of the work must make such ~~xxxx~~ that the relative data should be handed over to this Ministry not later then October 15th.

The data must be furnished identic to the attached forms distinctly for every category (masonry in subcategories as results from the special part) minor viability- new railway constructions - harbour works - public waters - transmission lines of electric energy - hygienic and sanitary works - ~~xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx~~ dwellings damaged by landslide or floods, -land reclamation.

The works ~~xxxxxx~~ subject to the dispositions of the law concerning earthquake must be collected apart and compiled with elements required for single categories of work. In the same way the reinforcement or rehabilitation works of dwellings will be indicated with the data required for the categories of work they belong to.

This may be done also for the data already surveyed and these should be therefore adjourned and conformed to present directives and reproduced on the aforesaid forms.

Concerning the single elements of the forms specific explanations are not necessary beyond those required by the present letter for every category. However in case of doubt you may ask further explanation and if necessary even by telegraph in order to spare time.

Comune rules for diverse categories of work.

1. Criterions to follow in the valuing expenses.

For reconstruction or repair of private buildings (also shops, bars etc) more or less badly damaged the valutation should be done on basis of the average of rooms distroyed. In the cost of rehabilitation or repair the cost of foundation or that of the area should not be included as these may be nearly always used again(loss in case of buildings which cannot be rebuilt on the same place because in reclaimed area or for other special reasons.

The base of valutation should always and in any case be the price of the market in the first semester of the year in course.

5962

The same judgement should be adopted also for the buildings which are not properly private dwellings but but are used as such (colleges, religious institutes in general, infant shools, asylums etc). For all other constructions having other purposes then dwelling, the valutation should be performed on base of cost for cubic meter.

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

For constructions without housing character the valutation should be done on basis of the measure prevailing in the category.

For machinery and installations in general valutation has to be done on basis of the characteristics of function, of the quantity of metal and other materials occuring and to difficulties of supply in the present contingency.

2. Materialex and labor.

In the estimate of cost it should be foreseen the employment of materials easily available locally and of those already at disposition.

Furthermore it should be indicated with the utmost possible approximity the necessary quantity of the most important materials (lime- cement-stone-brickets-tiles- iron etc) besides machinery, apparatuses etc, distinctly for the 3 categories of damage (distruction - bad damage - slight damage) aducing apart the amount of controlled materials.

Concerning labor it is necessary to indicate the requirements in working days distinctly for the 3 categories and xxtto notify if possible the eventual local qualitative or quantitative deficiency.

3. Order of indicating works.

As the survey has to be complete,i.e it must include all war damages even if repaired in the moment of notifying, therefore in the forms should be included the damages eventually repaired, reconstructed and those for which action is in course.

Thus taking into account the order of notifying is the following: Works execute works in course - works to be initiated, these latter in order of urgency. In the cases in which it has been already provided for repair it should be indicated from whom and with which funds work has been carried out.

4. Photographs.

Should the Offices already be in possess of photographs of the works before the damage or in the actual state or it would be easy for them to obtain such it would be useful to attache them to the documentation.

5. Excluding from survey.

From the above survey are excluded the damages occured to real estates, plants and goods concerning the State railway Administration and the Military Administrat having special and direct defense purposes (i.e. fortifications- Arsenals - Air-fields - powder factories etc).

xxxxxxxxxxxx

5961

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

6. Unemployment

In order to be able to dispose from now on of the elements eventually occuring to the execution of a programme against unemployment it should be expedien that the works considered in themselves or in relation with the special quality of local unemployment which may be particularly util and efficient should be marked with special signs.

SPECIAL RULES FOR THE SIBGLE CATEGORIES

Masonry

1. Houses or rural buildings.

Investigation tend to determine total damage in every Province, every Commune or fraction of Commune of the Province and tend also to verify beyond the requirements the number of repairable rooms in the buildings badly or slightly da maged, if these are not situated in reclaimed areas and therefore cannot be taker into consideration for dwelling consequently alto the number of new rooms to be built has to be verified in order to give refuge to population really living in the place and remained roofless.

It is therefore indispensable-in order to avoid ant ad hoc judgement- that these date-and especially those referring to the rooms easily repairable- be surveyed with the utmost care indicating possibly the total number of persons who can be provided for in every commune.

In view of the purposes of this survey it is advisable that the verifyings referring to dwellings easily repairable have the highest priority in respects of all others mentioned in the present circular.

2. Buildings of Statal property or statal use.

Investigation referring to this subcategory must take into considera all buildings of statal and public property of whatsoever use and also those (to be marked with asterisk) which are not of statal property but employed by the State to use of public interest in case that it should not result that the management has intention to renounce to such use.

The buildings should be enumerated with indication of their use and divided as in the above number 1 (distroyed-badly damaged- slightly damaged). Valuation, supposing that the purpose is different from dwelling, should be done on the basis of cubic meters, but it is perhaps superfluous to advise that those buildings which are wholly or partially destined to dwelling should be valued following the criterion of rooms.

3. Buildings appointed by Provincial Management to purposes of Public Interest:

To the aforesaid para it must be added that buildings appointed by

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

the Province to purposes different from the above mentioned ones, have to be included in Subcategories corresponding to their purpose.

4. Buildings appointed by Comunes to use of public interest.

Same remarks apply as para 3.

5. Buildings in propriety of public bodies different from those above mentioned and appointed to purposes of public interest.

Same remarks apply as previous para.

6. School buildings.

In this sub-category should be included, indicating their belonging the preparatory and the high schools of the Province and of the Comunes and privat schools recognized by the Government on the condition that the part of the building used as a school should be the prevalent one; in the contrary case the building will be included in category I , namely if the part used for private dwelling be the prevalent one, are entered in the category corresponding to that prevalent use.

The high school buildings will be included in this group only in case they they do not belong to the State; if not they will be included in the sub-group 2).

7. Churches and buildings whatever concerned with worship.

Concerning churches a particular mention will be made of the Parish Churches or those considered such (that is those which take care of the welfare of souls and are therefore permanently used for public worship.)

Together with the churches which are not a Parish nor are considered as such, all buidings in connection with worship such as archbishoprics, bishopries, presbyteries, seminaries, monasteries and in general all buildings belonging to religious Orders will be included in this category".

The inquiry will consider as belonging to this category also the buildings of different religious denomination and their pertaining to Public Bodis, Private Bodies, Juridical Persons in general or to private individuals have to be mentioned for these buildings quite as for the Churches which are not Parish or similar as well as other buildings in connection with catholic worship.

8. Buildings devoted to public shows.

Private properties will be mentioned here;on the contrary buildings belonging to Public Bodies will.be considered as pertaining to the category referring to same properties.

9. Buildings for industrial or agricultural use.

As said in the generalities machinery has not to be mentioned for

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

the moment in this category but all documents proving losses, handed in by the persons concerned will be accepted and eventually taken into consideration seperately.

With regard to the gas works also the damages of the distributor pipes will have to be mentioned also industrial buildings administarted by public bodies (e.g. trams, bus, " filobus" sheds), are to be mentioned here.

II. Minor roads. (Schedule 10)

For this branch the general statistical survey must be drawn up only and separately for 2nd 3rd and fourth class roads mentioned in the Royal Decree 15 November 1923 N.2506, and if possible for the country roads. For each damage road which has to be identified by means of all the data required for this purpose, we need a summary and synthetic description of the damages from which it will be possible to infer how far the road itself can be used and the cost necessary to put it in order again. For this purpose all elements mentioned in the enclosed table will have to be supplied distinguishing the roadway itself from the works such as bridges, sustaining walls, perepets etc.etc.

As to the other instructions to be followed we refer to the general ones.

III. New Railway Constructions (Schedule II.)

The enclosed schedule concerning this branch of public works (considered on the way) includes all data needed in order to specify the damages caused to the railway constructions on the way, therefore we do not consider it necessary to give further instructions.

IV. Harbour works. (Schedule 12)

For every damaged port it will be necessary to specify to which of the two categories and to the four classes mentioned in the consolidated text " of July 16 1884 N. 2518 it belonges.

For every maritime or beach-defence work you will also supply the following information:

1. For the outer works and the quays, the length in meters indicating whether destroyed or seriously or slightly damaged.
2. For the harbour equipment the number of power of the cranes, of the elevators or of the other unloading mechanism and the nature of the damage, that is if destroyed or only impaired.
3. For the dry docks, the part dstroyed or damaged(sides

4. For the harbour buildings it will be sufficient to note building alone, the value and the data having to be included in the category referring to state owned buildings.
5. For the beach defence work the linear meters damaged.

With regard to the damages caused to the excavating service

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

the offices will transmit the data given to them to the General Direction of Road maintenance according to the special circular it sent out.

V. Hydraulic and Navigation Works (Schedule 13)

For this branch the survey must be drawn up for each of the 5 categories of hydraulic works mentioned in the Consolidated Text of July 25 1904 N 253 and for each of the 4 classes of navigation works mentioned in the Consolidated Text approved by R. Decree of July 11 1913 N. 959.

In the survey the damaged works will be listed in an orderly manner, that is according to catchment area, the different streams and the direction of the flow.

For every category or class of the afore-said works, the data mentioned in the enclosed schedule concerning this branch and a synthetic description of the damage suffered by the work and the numerical data concerning it will have to be supplied, as also those regarding the movable material of the temporary dwellings and reservoirs (e.g. for the embankments and the dams; the length of the damaged part, its average height and how the remainder stands with regard to the average and maximum flood, water level, as also the approximate volume of the damaged portion) besides the kind of structure used in the damaged work (earth, stone, masonry and in this case the various kinds of masonry).

Among the damages you will consider the obstructions in the beds of the streams caused by the demolition of bridges or by the constructions of temporary carriage ways which may harm the laboruing country side, pointing out their locality and nature besides the kind of work to be carried out for their removal and its cost.

VI. Diversion and use of Public Waters (schedule 14)

For this branch the general statistical survey must be drawn up bearing in mind the rules of the consolidated Text of December 11 1939 N. 1775 noting whether the diversion in question is great or small.

Also for this category, the damaged works will have to be lifted in an orderly manner that is according to the catchment area and the direction of the flow.

For each of the 8 groups you will have to supply the data mentioned in the schedule concerning this branch and a synthetic description of the damage caused to the collection of regulation and of main and auxiliary diversions, feeding canals, intakes, besides for the diversions operating ~~with~~ motive force, penstocks, plant and relative machinery, tail races, elevation and depuration plant, main drinking water pipes, charging and the distributing basins, main irrigation and outlet canals and outlet pipes, including elements for information as to structures of damaged works (f.i. dams if earth or stone or gravity type or others)

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

VII. Transmission and distribution lines (schedule 15)

Also for this class of work the general statistical survey is to be drawn up be ring in mind the rules of the Consolidated ext of December 11 1933 N. 1775 and specifying whether the line is aper or or inferior to 5000 Volts.

The following data will also have to be supplied:

1. Province or provinces and communes which are entirely traversed by the line.

2. Description of the section or sections of damaged lines with the indication of locality, of model, number and dimension of the poles, of the wires, the insulators, besides the data concerning the furnishing of the transforming cabin , the machinery and the equipment installed.

VIII. Sanitary works.

For this branch the general statistical survey has to be drawn separately for every commune of the Province for works belonging to syndicates, assigning them to the ~~xxxx

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

X. Land-reclamation works (schedule 22)

For this branch, in spite of the General Direction of Land reclamation and Colonization of the Ministry of Agriculture and Forests having sent to the Regional and Departmental offices of the Genio Civile the circulars N. 50292 of Aug 10 last and N. 5094 of Aug 26 last, drawing up programmes of urgently needed land-reclamations, among which those setting up damaged works again, this Ministry's investigation being directed on the other hand towards ascertaining the damages caused by the war to this class of public works for the necessary including in the general plan of reconstruction, we have deemed it necessary together with the aforesaid Department, to see to the statistical survey of the damaged land reclamation works also with the same unitary criterion.

Therefore, for each area belonging to the two classes indicated in article two of Royal decree of Feb 13 1933 N. 215, you will note the extension in hectars, the Communes it is situated in, the land reclamation system followed, i.e. if by natural drainage or by gravity, by filling or by mechanical exhaustion and you will supply all the distinguishing data of the damage, enumerated in the enclosed schedule concerning this branch.

You will make the following evident: the part of the area submerged or become boggy and therefore lost to cultivation; the pumping stations machinery totally or partially carried away and those damaged in any way besides the obstructions in the canals or at their mouth.

For valuation of damage and restoring the works you are referred to the general rules included in this circular .

I do not consider it superfluous to urge the utmost dispatch again in carrying out the work the results of which it will be a good thing to send in gradually as the work gets done of every class of works, with the indication of the personnel that has carried it out, from which their degree of diligence and skill will appear.

Please acknowledge receipt of the present and assure us of timely fulfillment.

For the Minister
signed Bruno

I 10

Roma, addì 9 Settembre 1944

MINISTERO DEI LAVORI PUBBLICI
Direzione Generale dei Ser.Spec.li

Div. 27ª
Prot. nº 488

OGGETTO:

Rilevamento generale dei danni di guerra =

AI CAPI DEGLI UFFICI DEI G.C.
AI CAPI DEGLI UFFICI DELLE NUOVE COSTRUZIONI FERROVIARIE -
e per conoscenza:
ALLA SOTTOCOMMISSIONE LL.PP. DELL'A.C.C. R O M A
AGLI ALTI COMMISSARI PER LA SICILIA E LA SARDEGNA = CAGLIARI = PALERMO
AL DIRETTORE GEN.TECNICO DEL MINISTERO DEI LL.PP. S E D E
AI DIRETTORI GENERALI DEL MINISTERO DEI LL.PP. S E D E
AI PROVVEDITORI ALLE OO.PP. PALERMO - CAGLIARI
AI CAPI DEGLI UFF. REG.LI DEL G.C.

La ricostruzione e riparazione delle opere pubbliche e dei beni pubblici e privati danneggiati dalle azioni belliche costituisce uno dei problemi più gravi del dopo guerra, al quale sarà dedicata nel prossimo futuro la prevalente attività di questo Ministero - Il quale, per mettersi in condizione di assolvere tale compito, deve avere conoscenza, per quanto possibile completa ed esatta, di tutti i danni prodotti dalla guerra.

E' all'uopo necessario provvedere al rilevamento generale di tali danni con criteri uniformi e con la maggiore possibile rapidità. A tale scopo è diretta la presente circolare sulla quale richiamo la particolare attenzione dei Capi degli Uffici intendendo che alle disposizioni che con essa vengono impartite si dia, sotto la loro personale direzione e responsabilità, il più sollecito corso e l'esecuzione più scrupolosa, ed evitando, per quanto riguarda in particolare la parte finanziaria, previsioni gravemente errate in difetto o in eccesso.

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

Prot. n° 488

AI SIGG. COMMISSARI PER LA SICILIA E LA SARDEGNA = CAGLIARI = PALERMO

AL DIRETTORE GEN.TECNICO DEL MINISTERO DEI LL.PP. S E D E

AI DIRETTORI GENERALI DEL MINISTERO DEI LL.PP. S E D E

AI PROVVEDITORI ALLE OO.PP. PALERMO - CAGLIARI

AI CAPI DEGLI UFF. REG.LI DEI G.C.

OGGETTO:

Rilevamento generale dei danni di guerra =

La ricostruzione e riparazione delle opere pubbliche e dei beni pubblici e privati danneggiati dalle azioni belliche costituisce uno dei problemi più gravi del dopo guerra, al quale sarà dedicata nel prossimo futuro la prevalente attività di questo Ministero - Il quale, per mettersi in condizione di assolvere tale compito, deve avere conoscenza, per quanto possibile completa ed esatta, di tutti i danni prodotti dalla guerra.

E' all'uopo necessario provvedere al rilevamento generale di tali danni con criteri uniformi e con la maggiore possibile rapidità. A tale scopo è diretta la presente circolare sulla quale richiamo la particolare attenzione dei Capi degli Uffici intendendo che alle disposizioni che con essa vengono impartite si dia, sotto la loro personale direzione e responsabilità, il più sollecito corso e l'esecuzione più scrupolosa, ed evitando, per quanto riguarda in particolare la parte finanziaria, previsioni gravemente errate in difetto o in eccesso.

Questo Ministero si rende conto che nel momento attuale l'espletamento del lavoro può riuscire particolarmente gravoso, ma poichè esso risponde ad un interesse vitale della Nazione non dubito che, consapevole di ciò, il personale vi adempia con la maggiore dilige= 595
zione.

Dal canto suo terrà nel massimo conto l'opera che da ciascun funzionario sarà in questa circostanza prestata e prenderà in benevola considerazione le proposte, che a lavoro ultimato, i Capi degli

./.

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

Uffici riterranno di presentargli per premiare i più meritevoli.

D'altro canto, onde alleviare in parte l'aggravio agli uffici ed ottenere maggiore celerità di esecuzione, le SS.LL. potranno, secondo le riterranno opportuno, chiedere alle Amministrazioni e agli Enti pubblici che, per quanto riguarda i beni e le opere di loro diretto interesse, provvedano al rilevamento con i criteri di cui nella presente circolare salvo agli uffici di controllare i dati forniti.

Ciò potrà essere fatto anche quando per eccezionali circostanze, quale ad esempio la difficoltà di accesso sui posti, non fosse possibile agli uffici di provvedere direttamente in ispecie per le abitazioni rurali nel qual caso potranno assumere i dati dall'Amministrazioni locali che ne fossero in possesso (Comuni-Ispettorati Provinciali dell'Agricoltura) controllandone, ove lo ritengano necessario, per quanto possibile l'esattezza.

La necessità ed opportunità di tali richieste dovranno essere esaminate e decise, subito e le richieste dovranno essere rivolte al più presto, in vista del tempo che occorrerà per ottenere gli adempimenti da parte delle Amministrazioni interessate.

Ad ogni modo tengano presente le SS.LL. che dovranno predisporre l'esecuzione del lavoro per modo che i dati relativi pervengano a questo Ministero non oltre il 15 ottobre.

I dati dovranno essere forniti con prospetti identici a quelli dei quali si allegano i moduli distintamente per ciascuna categoria di opere (edilizia ripartita nelle subcategorie come risultante dalla parte speciale) richiesta

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

retto interesse, provvedano al rilevamento con i criteri di cui nel=
la presente circolare salvo agli uffici di controllare i dati forni=
ti.

Ciò potrà essere fatto anche quando per eccezionali circostanze, quale ad esempio la difficoltà di accesso sui posti, non fosse possi=
bile agli uffici di provvedere direttamente in ispecie per le abita=
zioni rurali nel qual caso potranno assumere i dati dall'Amministra=
zioni locali che ne fossero in possesso (Comuni-Ispettorati Provincia=
li dell'Agricoltura) controllandone, ove lo ritengano necessario, per quanto possibile l'esattezza.

La necessità od opportunità di tali richieste dovranno essere esaminate e decise, subito e le richieste dovranno essere rivolte al più presto, in vista del tempo che occorrerà per ottenere gli adem=
pimenti da parte delle Amministrazioni interessate.

Ad ogni modo tengano presente le SS.LL. che dovranno predispor=
re l'esecuzione del lavoro per modo che i dati relativi pervengano a questo Ministero non oltre il 15 ottobre.

I dati dovranno essere forniti con prospetti identici a quelli dei quali si allegano i moduli distintamente per ciascuna categoria di opere (edilizia ripartita nelle subcategorie come risultante dal=
la parte speciale) viabilità minore - nuove costruzioni ferroviarie - opere marittime - idrauliche e di navigazione - acque pubbliche - li=
nee di trasmissione e di distribuzione di energia elettrica - opere igieniche e sanitarie - opere di consolidamento o di difesa di abita=
ti da alluvioni piene e frane - opere di bonifica.

Le opere soggette tuttora alle disposizioni di legge sui terre=
moti dovranno essere riunite in prospetto a parte, da formarsi con gli elementi richiesti per le singole categorie di opere. Del pari per le opere di consolidamento e di difesa degli abitati i lavori saranno indicati con i dati richiesti per le categorie di opere tra le quali

./.

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

sono classificarsi.

Ciò dovrà essere fatto anche pei dati che sono stati già rilevati e che, pertanto, dopo l'eventuale necessario aggiornamento, dovranno essere conformati alle presenti direttive e riprodotti sugli anzidetti prospetti.

Circa i singoli elementi che dovranno essere forniti dai prospetti non si ritiene necessaria alcuna specifica di lucidazione; oltre le avvertenze che verranno date con la presente per ciascuna categoria di opere. Ad ogni modo se sorgessero dubbi le SS.LL. dovranno chiedere i chiarimenti che ritenessero opportuno senza indugio anche telegraficamente a guadagno di tempo.

NORME COMUNI ALLE VARIE CATEGORIE DI LAVORI

1) Criteri di valutazione della spesa -

Per le ricostruzioni o riparazioni degli edifici di privata abitazione (compresi botteghe, negozi, bar etc.) la valutazione dovrà essere fatta per vano medio distrutto o danneggiato gravemente o lievemente, tenendo conto che nel costo della ricostruzione o delle riparazione non deve essere considerato quello delle fondazioni e quello dell'area che quasi sempre saranno utilizzabili (a meno che non si tratti di edifici non riedificabili in sito perchè in zona di risanamento o per altri speciali motivi).

Dovranno essere tenuti per base per tutte indistintamente le valutazioni (anche cioè per quelle fatte con criterio diverso del vano) i prezzi correnti sul mercato nel primo semestre dell'anno in corso.

Il sopradetto criterio dovrà essere adottato anche per tutti quo-

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

Circa i singoli elementi che dovranno essere forniti dai prospetti non si ritiene necessaria alcuna specifica delucidazione, oltre le avvertenze che verranno date con la presente per ciascuna categoria di opere. Ad ogni modo se sorgessero dubbi le SS.LL. dovranno chiedere i chiarimenti che ritenessero opportuno senza indugio anche telegraficamente a guadagno di tempo.

NORME COMUNI ALLE VARIE CATEGORIE
DI LAVORI

1) Criteri di valutazione della spesa -

Per le ricostruzioni e riparazioni degli edifici di privata abitazione (compresi botteghe, negozi, bar etc.) la valutazione dovrà essere fatta per vano medio distrutto o danneggiato gravemente o lievemente, tenendo conto che nel costo della ricostruzione o della riparazione non deve essere considerato quello delle fondazioni e quello dell'area che quasi sempre saranno utilizzabili (a meno che non si tratti di edifici non rifacibili in sito perchè in zone di risanamento o per altri speciali motivi).

Dovrà essere tenuti per base per tutte indistintamente le valutazioni (anche cioè per quelle fatte con criterio diverso del vano) i prezzi correnti sul mercato nel primo semestre dell'anno in corso.

Il soprascritto criterio dovrà essere adottato anche per tutti quegli edifici che, pur non essendo abitazioni private vere e proprie, servono prevalentemente ad uso di abitazione (collegi, convitti, conventi, istituti religiosi in generale, asili, ricoveri di mendicità, etc.)

Per tutte le altre costruzioni edili invece, aventi in tutto o prevalentemente scopo diverso dell'abitazione, dovrà farsi la valutazione in base al costo per mc. vuoto per pieno.

Per le costruzioni invece non aventi carattere edilizio la valutazione dovrà farsi in base alle unità di misura della categoria di lavori in essa prevalente. Per i macchinari ed impianti in ge=

./.

5953

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

nore la valutazione dovrà essere fatta discrezionalmente in base al= le caratteristiche del funzionamento dei medesimi, alla quantità dei materiali metallici e non metallici occorrenti e alla difficoltà di approvvigionamento nelle attuali contingenze.

2 = Materiali e mano d'opera -

Nel computo della spesa dovrà provvedersi l'impiego dei materiali di più facile approvvigionamento sul posto, oltre che di quelli di ri= sulta.

Sarà inoltre da indicarsi con la maggiore possibile approssimazio= ne il quantitativo occorrente per ogni Comune dei principali materiali (calce, cemento, pietrame, mattoni, laterizi, ferro etc. nonchè di mac= chinari, apparecchiature etc.) distintamente per le tre categorie di danni (distruzione - danno grave - danno lieve) e segnalando a parte l'ammontare di quelli contingentati.

Per la mano d'opera occorrerà indicare il fabbisogno in numero di giornate operaie egualmente distinte per le tre categorie e segna= lando possibilmente l'eventuale deficienza qualitativa o quantitati= va locale.

3 = Ordine di indicazione dei lavori -

Dovendo il rilevamento essere completo, comprensivo cioè di tut= ti i danni prodotti dalla guerra anche se riparati all'atto della se= gnalazione, dovrà nei prospetti essere incluso anche quanto abbia eventualmente già formato oggetto di riparazione, ripristino e rico= struzione o per il quale siano in corso i provvedimenti.

Tenendo conto di ciò le segnalazioni dovranno essere fatte nei prospetti col seguente ordine:

lavori eseguiti - lavori in corso - lavori da iniziare (progetti

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

di più facile approvvigionamento sul posto, oltre che di quelli di risulta.

Sarà inoltre da indicarsi con la maggiore possibile approssimazione il quantitativo occorrente per ogni Comune dei principali materiali (calce, cemento, pietrame, mattoni, laterizi, ferro etc. nonchè di macchinari, apparecchiature etc.) distintamente per le tre categorie di danni (distruzione - danno grave - danno lieve) e segnalando a parte l'ammontare di quelli contingentati.

Per la mano d'opera occorrerà indicare il fabbisogno in numero di giornate operaie egualmente distinte per le tre categorie e segnalando possibilmente l'eventuale deficienza qualitativa o quantitativa locale.

3 = Ordine di indicazione dei lavori -

Dovendo il rilevamento essere completo, comprensivo cioè di tutti i danni prodotti dalla guerra anche se riparati all'atto della segnalazione, dovrà nei prospetti essere incluso anche quanto abbia eventualmente già formato oggetto di riparazione, ripristino o ricostruzione o per il quale siano in corso i provvedimenti.

Tenendo conto di ciò le segnalazioni dovranno essere fatte nei prospetti col seguente ordine:

lavori eseguiti - lavori in corso - lavori da iniziare elencati questi ultimi per ordine di urgenza. Nei casi in cui le provvidenze riparatrici siano già intervenute occorrerà indicare da chi e con quali fondi siano stati eseguiti i lavori.

4 = Fotografie - Ove gli uffici dispongano già di fotografie delle opere avanti il danno o nello stato attuale o sia loro facile procurarsele sarà utile vengano allegate alla documentazione.

./.

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

5 = Esclusioni dal rilevamento - Dal rilevamento come sopra disposto vanno eccettuati i danni agli immobili, impianti e beni comunque di spettanza della Amministrazione delle Ferrovie dello Stato, nonchè quelli di spettanza delle Amministrazioni militari, aventi fine specifico e diretto di difesa (es. fortificazioni - arsenali - campi di aviazione, polveriere etc.)

6 = Disoccupazione - Per poter disporre sin d'ora degli elementi occorrenti eventualmente per l'attuazione di un programma contro la disoccupazione sarà opportuno che i lavori i quali, considerati per se stessi o in relazione alla specifica qualità della disoccupazione locale, possano riuscire particolarmente utili ed efficienti siano contrassegnati con segno speciale.

NORME SPECIALI AILE SINGOLE CATEGORIE:

I - EDILIZIA

1 = Fabbricati di abitazione o rurali -

L'indagine, oltre alla determinazione del danno complessivo per ogni Provincia o per ogni Comune o frazione di Comune della Provincia, tenderà ad accertare, oltre al fabbisogno, anche il numero dei vani riparabili compresi in fabbricati gravemente o lievemente danneggiati, quando questi non ricadano in zone di risanamento urbano e non possano quindi essere considerati come esistenti ai fini dell'abitabilità, e conseguentemente il numero dei nuovi vani da costruire per dare asilo alla popolazione effettivamente residente rimasta senza tetto.

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

cifico - diritto di difesa (es. fortificazioni - arsenali - campi di evitazione, polveriere etc.)

6 = Disoccupazione. - Per poter disporre sin d'ora degli elementi occorrenti eventualmente per l'attuazione di un programma contro la disoccupazione sarà opportuno che i lavori i quali, considerati per se stessi o in relazione alla specifica qualità della disoccupazione locale, possano riuscire particolarmente utili ed efficienti siano contraddistinti con segno speciale.

NORME SPECIALI ALLE SINGOLE CATEGORIE:

I - EDILIZIA

1 = Fabbricati di abitazione o rurali. -

L'indagine, oltre alla determinazione del danno complessivo per ogni Provincia o per ogni Comune o frazione di Comune della Provincia, tenderà ad accertare, oltre al fabbisogno, anche il numero dei vani riparabili compresi in fabbricati gravemente o lievemente danneggiati, quando questi non ricadano in zone di risanamento urbano e non possano quindi essere considerati come esistenti ai fini dell'abitabilità, e conseguentemente il numero dei nuovi vani da costruire per dare asilo alla popolazione effettivamente residente rimasta senza tetto.

E' pertanto indispensabile, ad evitare di dover fare in seguito un accertamento ad hoc, che questi dati ed in particolare quelli relativi ai vani facilmente riparabili, siano rilevati con la maggiore cura e possibilmente sia indicato complessivamente il numero delle persone che potrà essere sistemata per ciascun Comune.

Dato lo scopo cui potrebbero servire è opportuno che gli accer=

./. 5952

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

tamenti relativi ai vani di abitazione facilmente riparabili abbiano la precedenza assoluta su tutti gli altri di cui alla presente circolare.

2 = Edifici di proprietà o di uso dello Stato.

L'indagine per questa subcategoria deve riguardare tutti gli edifici dello Stato demaniali o patrimoniali a qualunque uso adibiti ed anche quelli (da segnalarsi distintamente con asterisco) non di proprietà dello Stato ma adibiti dallo Stato ad uso di pubblico interesse, ove non risulti che l'Amministrazione intende rinunziare a tale uso.

Gli edifici dovranno essere elencati con l'indicazione dell'uso cui erano adibiti e ripartiti come quelli del precedente numero 1 (distrutti - danneggiati gravemente - danneggiati parzialmente) - La valutazione, dato l'uso predominante diverso da quello di abitazione, dovrà essere fatta sulla base del mc. vuoto per pieno, ma è superfluo forse avvertire, che per quegli edifici statali adibiti in tutto o in parte ad uso di abitazione, dovrà adottarsi il criterio del vano.

3 = Edifici adibiti dall'Amministrazione Prov.le ad usi di pubblico interesse.

Alle avvertenze di cui al precedente numero devesi aggiungere che gli edifici eventualmente adibiti dalle Provincie ad uso diverso da quello in epigrafe dovranno essere inclusi nella subcategoria corrispondente alla loro destinazione.

4 = Edifici adibiti dai Comuni ad usi di pubblico interesse.

Valgono le avvertenze di cui al nº 3.

5 = Edifici di enti diversi da quelli sopraindicati destinati ad uso di pubblico interesse.

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

fici dello Stato demaniali o patrimoniali a qualunque uso adibiti ed anche quelli (da segnalarsi distintamente con asterisco) non di proprietà dello Stato ma adibiti dallo Stato ad uso di pubblico interesse, ove non risulti che l'Amministrazione intenda rinunziare a tale uso.

Gli edifici dovranno essere elencati con l'indicazione dell'uso cui erano adibiti e ripartiti come quelli del precedente numero 1 (distrutti - danneggiati gravemente - danneggiati parzialmente) - La valutazione, dato l'uso predominante diverso da quello di abitazione, dovrà essere fatta sulla base del mc. vuoto per pieno, ma è superfluo forse avvertire, che per quelli edifici statali adibiti in tutto o in parte ad uso di abitazioni, dovrà adottarsi il criterio del vano.

3 = Edifici adibiti dall'Amministrazione Prov.le ad usi di pubblico interesse -

Alle avvertenze di cui al precedente numero devesi aggiungere che gli edifici eventualmente adibiti dalla Provincia ad uso diverso da quello in epigrafe dovranno essere inclusi nella subcategoria corrispondente alla loro destinazione.

4 = Edifici adibiti dai Comuni ad usi di pubblico interesse.

Valgono le avvertenze di cui al n° 3 -

5 = Edifici di enti diversi da quelli sopr indicati destinati ad uso di pubblico interesse.

Valgono le avvertenze di cui ai numeri precedenti.

6 = Edifici scolastici -

Dovranno essere compresi in questa subcategoria indicandone l'appartenenza le scuole dell'ordine medio ed elementare, di proprietà della Provincia, dei Comuni, quelle parificate e private, purchè per quest'ultime, la parte dell'edificio destinata a scuola risulti premi=

./.

Same remarks apply as para 3

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

mente: in caso contrario l'edificio sarà incluso nella categoria I, se a prevalente uso di abitazione, e in quella categoria rispondente all'uso prevalente.

Gli edifici delle scuole dell'ordine superiore saranno considerati in questa categoria solo nel caso che non appartengano allo Stato; mentre nel caso contrario saranno inclusi nella subcategoria 2).

7 = Chiese ed edifici comunque interessanti il culto.

Delle chiese dovranno essere indicate con speciale segnalazione quelle parrocchiali o assimilate (aventi cioè cura d'anime e perciò adibite all'esercizio permanente del culto pubblico).

Unitamente alle Chiese non parrocchiali nè assimilate saranno comprese in questa categoria tutti gli edifici che hanno attinenza col culto quali gli arcivescovadi, vescovadi, canoniche, seminari, monasteri, ed in generale tutte le costruzioni degli ordini religiosi.

L'indagine dovrà riferire a questa categoria anche gli edifici di culti diversi dal cattolico e dovrà essere indicata per questi come per le chiese parrocchiali nè assimilate e per gli altri edifici attinenti al culto cattolico, l'appartenenza ad Enti pubblici, Enti privati, persone giuridiche in generale o privati ..

8 = Edifici adibiti a pubblici spettacoli ..

Dovranno essere qui indicati quelli di proprietà privata mentre quelli di Enti pubblici dovranno trovare inquadramento nella categoria dei beni relativi ai medesimi.

9 = Edifici ad uso industriale e agricolo

Come si è detto nella parte generale il rilevamento deve pel momento prescindere per questa categoria di opere dai macchinari; ma i documenti comprovanti la perdita che gli interessati producessero saranno accettati e rimessi a parte per un'eventuale separata valu-
zione.

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

rati in questa categoria solo nel caso che non appartengano allo Stato, mentre nel caso contrario saranno inclusi nella subcategoria 2).

7 = Chiese ed edifici comunque interessanti il culto.

Delle chiese dovranno essere indicate con speciale segnalazione quelle parrocchiali o assimilate (aventi cioè cura d'anime e perciò adibite all'esercizio permanente del culto pubblico).

Unitamente alle Chiese non parrocchiali nè assimilate saranno comprese in questa categoria tutti gli edifici che hanno attinenza col culto quali gli arcivescovadi, vescovadi, canoniche, seminari, monasteri, ed in generale tutte le costruzioni degli ordini religiosi.

L'indagine dovrà riferirsi a questa categoria anche gli edifici di culti diversi dal cattolico e dovrà essere indicata per questi come per le chiese parrocchiali nè assimilate e per gli altri edifici attinenti al culto cattolico, l'appartenenza ad Enti pubblici, Enti privati, persone giuridiche in generale o privati.

8 = Edifici adibiti a pubblici spettacoli.

Dovranno essere qui indicati quelli di proprietà privata mentre quelli di Enti pubblici dovranno trovare inquadramento nella categoria dei beni relativa ai medesimi.

9 = Edifici ad uso industriale e agricolo

Come si è detto nella parte generale il rilevamento deve pel momento prescindere per questa categoria di opere dai macchinari; ma i documenti comprovanti le perdite che gli interessati produrranno saranno accettati e rimessi a parte per un'eventuale separata valutazione.

Per le officine di produzione di gas saranno anche da rilevare i danni alle condotte distributrici.

Anche per gli edifici delle industrie gestite da Enti pubblici (es. rimesse auto-filo-tramviarie) le indicazioni saranno fatte sotto

5951

./.

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

questa voce.

II - VIABILITA' MINORE (prospetto 10)

Per questa branca il rilevamento statistico generale va fatto limitatamente e distintamente per quanto riguarda le strade di 2^ - 3^ e 4^ classe di cui al R.D. 15 novembre 1933 n° 2506, nonchè - possibilmente - le vicinali.

Per ogni strada danneggiata, da individuare con l'indicazione degli estremi, occorre una sommaria esposizione sintetica dei danni subiti dalla quale possa dedursi lo stato di transitabilità della strada stessa e la spesa occorrente per il ripristino.

A tale scopo dovranno essere forniti tutti gli elementi indicati nel prospetto allegato relativo a tale branca, distinguendo il corpo stradale, dai manufatti e dagli accessori.

Per tutte le altre norme da seguire si fa riferimento a quelle di carattere generale indicate nella presente.

III - NUOVE COSTRUZIONI FERROVIARIE (prospetto 11)

Il prospetto allegato relativo a tale branca di opere pubbliche (considerate in fase di esecuzione) contiene tutti gli elementi atti a discriminare i danni arrecati alle costruzioni ferroviarie in corso e perciò non si ritiene opportuno di dare altre norme illustrative per la compilazione del prospetto.

IV - OPERE MARITTIME (prospetto 12)

Per ogni porto che abbia subiti danni occorrerà indicare la sua appartenenza a ciascuna delle due categorie e delle quattro classi di cui alla legge T.U. 16 luglio 1934 n° 2513.

Per ogni opera poi sia marittima sia di difesa di spiaggia occor-

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

e 4ª classe di cui al T.U. 16 novembre 1939 nº 2506, nonchè - possibilmente - le vicinali.

Per ogni strada danneggiata, da individuare con l'indicazione degli estremi, occorre una sommaria esposizione sintetica dei danni subiti dalla quale possa dedursi lo stato di transitabilità della strada stessa e la spesa occorrente per il ripristino.

A tale scopo dovranno essere forniti tutti gli elementi indicati nel prospetto allegato relativo a tale branca, distinguendo il corpo stradale, dai manufatti e dagli accessori.

Per tutte le altre norme da seguire si fa riferimento a quelle di carattere generale indicate nella presente.

III - NUOVE COSTRUZIONI FERROVIARIE (prospetto II)

Il prospetto allegato relativo a tale branca di opere pubbliche (considerate in fase di esecuzione) contiene tutti gli elementi atti a discriminare i danni arrecati alle costruzioni ferroviarie in corso e perciò non si ritiene opportuno di dare altre norme illustrative per la compilazione del prospetto.

IV - OPERE MARITTIME (prospetto 12)

Per ogni porto che abbia subiti danni occorrerà indicare la sua appartenenza a ciascuna delle due categorie e delle quattro classi di cui alla legge T.U. 16 luglio 1904 nº 2518.

Per ogni opera poi sia marittima sia di difesa di spiaggia occorrerà fornire i seguenti elementi:

1 = per le opere foranee e le banchine i ml. precisando se distrutti o danneggiati gravemente o lievemente;

2 = Per gli arredamenti portuali il numero e la potenza delle gru, degli elevatori o degli altri meccanismi di carico e scarico e la natura del danno e cioè se distrutti o soltanto danneggiati.

3 = Pei bacini di carenaggio la parte distrutta o danneggiata (fianca=

./.

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

te, taccate, battelli porta etc.)
4 = Per gli edifici portuali basterà in questa voce la indicazione sè= lo dell'edificio, dovendo la valutazione e i dati essere compresi nel= la categoria dell'edilizia tra i beni dello Stato.
5 = Per le opere di difesa delle spiaggie i ml. danneggiati.

Per quanto riguarda i danni arrecati ai convogli effossori del servizio escavazione gli uffici trasmetteranno i dati che saranno for= niti alla Direzione Generale della Viabilità in esito all'apposita cir= colare da questa firmata.

.. V.- OPERE IDRAULICHE E DI NAVIGAZIONE (prospetto 13)

Per questa branca il rilevamento va fatto per ognuna delle cinque categorie di opere idrauliche di cui al T.U. 25 luglio 1904 nº 523 e per ognuna delle quattro classi delle opere di navigazione di cui al T.U. approvato con R.D. 11 luglio 1913 nº 959.

. Nel rilevamento le opere danneggiate dovranno essere elencate or= dinatamente e cioè per bacino idrografico, per corso d'acqua e da mon= te a valle di questo.

. Per ogni categoria e classe delle opere suindicate dovranno es= sere forniti gli elementi innicati nel prospetto allegato relativo a tale branca ed una sintetica descrizione del danno riportato dall'ope= ra e dati numerici relativi anche per quanto riguarda il materiale mo= bile degli alloggiamenti e magazzini idraulici (ad es. per le argina= ture e le vie alzate; la lunghezza della parte danneggiata, l'altezza media di detta parte con riferimento della parte rimasta al pelo del= le media e della massima piena ed il volume approssimato della parte danneggiata), nonchè della natura delle strutture di cui l'opera dan= neggiata è costituita (in terra, in pietrame a secco, in muratura ed in quest'ultimo caso le varie specie

Declassified E.O. 12356 Section 3.3/NND No. 778019

Per quanto riguarda i danni arrecati ai convogli effossori del servizio escavazione gli uffici trasmetteranno i dati che saranno forniti alla Direzione Generale della Viabilità in esito all'apposita circolare da questa diramata.

V. OPERE IDRAULICHE E DI NAVIGAZIONE (prospetto 13)

Per questa branca il rilevamento va fatto per ognuna delle cinque categorie di opere idrauliche di cui al T.U. 25 luglio 1904 nº 523 e per ognuna delle quattro classi delle opere di navigazione di cui al T.U. approvato con R.D. 11 luglio 1913 nº 959.

Nel rilevamento le opere danneggiate dovranno essere elencate ordinatamente e cioè per bacino idrografico, per corso d'acqua e da monte a valle di questo.

Per ogni categoria e classe delle opere suindicate dovranno essere forniti gli elementi indicati nel prospetto allegato relativo a tale branca ed una sintetica descrizione del danno riportato dall'opera e dati numerici relativi anche per quanto riguarda il materiale mobile degli alloggiamenti e magazzini idraulici (ad es. per le arginature e le vie alzaie; la lunghezza della parte danneggiata, l'altezza media di detta parte con riferimento della parte rimasta al pelo della media e della massima piena ed il volume approssimato della parte danneggiata), nonchè della natura delle strutture di cui l'opera danneggiata è costituita (in terra, in pietrame a secco, in muratura ed in quest'ultimo caso le varie specie di muratura).

Tra i danni dovranno essere considerati gli ostacoli provocati negli alvei dei corsi d'acqua o dalla demolizione di ponti o dalla

./.

5950

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

costruzione di passaggi provvisori che possano recare nocumento alle campagne vicine, indicando l'ubicazione e la natura nonchè il genere e l'importo dei lavori da eseguire per la loro rimozione.

VI - DERIVAZIONI ED UTILIZZAZIONI DELLE ACQUE PUBBLICHE = (prospetto 14)

Per questa branca il rilevamento statistico generale va fatto tenendo presente le norme del T.U. 11 dicembre 1933 n° 1775 e indicando se trattisi di grande o piccola derivazione.

Anche per questa categoria le opere danneggiate dovranno essere elencate ordinatamente e cioè per bacino idrografico, per corso d'acqua e da monte a valle di questo.

Per ognuno dei due gruppi occorrerà fornire gli elementi indicati nel prospetto relativo a tale branca ed una sintetica descrizione del danno arrecato all'opera (opera di raccolta, di regolazione e di derivazione principali ed accessorie, canali adduttori dell'acqua, vasche di carico, nonchè per le derivazioni ad uso di forza motrice: condotte forzate, edificio di utilizzazione e relativo macchinario, canali di scarico ecc. impianti di sollevamento e di depurazione, condotte principali dell'acqua potabile, camere di carico e di distribuzione, canali principali, d'irrigazione, canali e condotte di scarico) nonchè quelli della natura delle strutture di cui l'opera danneggiata è costituita (ad es. per le dighe: se in terra, in pietrame a secco, in muratura a gravità o no, ecc.) .

VII - LINEE DI TRASMISSIONE E DI DISTRIBUZIONE DELL'ENERGIA ELETTRICA (prospetto 15)

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

(prospetto 14)

Per questa branca il rilevamento statistico generale va fatto tenendo presente le norme del T.U. 11 dicembre 1933 n° 1775 e indicando se trattisi di grande o piccola derivazione.

Anche per questa categoria le opere danneggiate dovranno essere elencate ordinatamente e cioè per bacino idrografico, per corso d'acqua e da monte a valle di questo.

Per ognuno dei due gruppi occorrerà fornire gli elementi indicati nel prospetto relativo a tale branca ed una sintetica descrizione del danno arrecato all'opera (opera di raccolta, di regolazione e di derivazione principali ed accessorie, canali adduttori dell'acqua, vasche di carico, nonchè per le derivazioni ad uso di forza motrice: condotte forzate, edificio di utilizzazione e relativo macchinario, canali di scarico ecc. impianti di sollevamento e di depurazione, condotte principali dell'acqua potabile, camere di carico e di distribuzione, canali principali, d'irrigazione, canali e condotte di scarico) nonchè quelli della natura delle strutture di cui l'opera danneggiata è costituita (ed es. per le dighe: se in terra, in pietrame a secco, in muratura a gravità o no, ecc.) ..

VII .. LINEE DI TRASMISSIONE E DI DISTRIBUZIONE DELL'ENERGIA ELETTRICA (prospetto 15)

Anche per questa categoria di opere il rilevamento statistico generale va fatto tenendo presente le norme del T.U. 11 dicembre 1933 n° 1775 e indicando se la linea sia di tensione superiore o inferiore a 5000 volta.

Dovranno essere inoltre forniti i seguenti elementi:

./.

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

1 = Provincia o provincie o comuni in cui ricade l'intera linea -
2 = Descrizione del tratto o dei tratti di linea danneggiata con indicazione della località, del tipo (o dei tipi) numero e dimensioni dei sostegni, dei conduttori e degli isolatori, nonchè dei dati riguardanti i manufatti delle cabine di trasformazione, i macchinari o le apparecchiature installate.

VIII - OPERE IGIENICHE

Per questa branca il rilevamento statistico generale va fatto distinto per ogni Comune della Provincia, od - ove si tratti di opere appartenenti a Consorzi - attribuendole al Comune Capo - Consorzio. Inoltre le opere dovranno essere raggruppate come appresso:

1 = acquedotti e pubblici lavatoi; (prospetto 16)
2 = fognature; (prospetto 17)
3 = cimiteri; (" 18)
4 = mattatoi; (" 19)
5 = ospedali .. (" 20)

Per ogni opera occorre una sintetica sommaria descrizione dei danni subiti onde risulti se trattisi di opere distrutte, gravemente o lievemente danneggiate.

A tale scopo occorrerà indicare i seguenti elementi:
a) per gli acquedotti: opera di allacciamento delle sorgenti, manufatti in genere (pozzetti d'interruzione o di ripartizione, ponti, briglie, sabatci ecc.) le tubazioni delle quali per ciascun tipo di tubo basterà specificare la lunghezza complessiva danneggiata; infine apparecchi di speciale importanza (saracinesche, valvole riduttrici di pressione, ecc.)
b) per le fognature; collettori, di cui occorrerà specificare, oltre la lunghezza del tratto danneggiato, le consuete caratteristiche [illegible]

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

di i manufatti delle cabine di trasformazione, i macchinari o le apparecchiature installate.

VIII - OPERE IGIENICHE

Per questa branca il rilevamento statistico generale va fatto distinto per ogni Comune della Provincia, ed - ove si tratti di opere appartenenti a Consorzi - attribuendole al Comune Capo - Consorzio. Inoltre le opere dovranno essere raggruppate come appresso:

1 = acquedotti e pubblici lavatoi; (prospetto 16)
2 = fognature; (prospetto 17)
3 = cimiteri; (" 18)
4 = mattatoi; (" 19)
5 = ospedali - (" 20)

Per ogni opera occorre una sintetica sommaria descrizione dei danni subiti onde risulti se trattisi di opera distrutta, gravemente o lievemente danneggiata.

A tale scopo occorrerà indicare i seguenti elementi:
a) per gli acquedotti: opera di allacciamento delle sorgenti, manufatti in genere (pozzetti d'interruzione o di ripartizione, ponti, briglie, sabatoi ecc.) le tubazioni delle quali per ciascun tipo di tubo basterà specificare la lunghezza complessiva danneggiata; infine apparecchi di speciale importanza (saracinesche, valvole riduttrici di pressione, ecc.)
b) per le fognature; collettori, di cui occorrerà specificare, oltre la lunghezza del tratto danneggiato, le consuete caratteristiche tecniche: sezione, (circolare ovoidale, ecc.) ampiezza, materiale o struttura muraria; eventuali impianti di depurazione biologica esistenti; pozzi in genere (di lavaggio, apertura, sbocco ecc.) ed apparecchi speciali limitandosi a citare soltanto quelli danneggiati d'importanza maggiore;

5949

./.

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

c) per i cimiteri: campi d'inumazione, cappelle private, camere mortuarie ed incisoria, eventuale abitazione del custode;
d) per i mattatoi: edificio, impianti speciali;
e) per gli ospedali: edificio principale, padiglioni, dipendenze, (lavanderie, locali per gli impianti di riscaldamento o di condizionamento dell'aria) uffici, abitazioni del personale addetto.

Per gli altri criteri da seguire per il completamento del prospetto si fa riferimento alla norma di carattere generale contenuta nella presente circolare.

IX - OPERE DI CONSOLIDAMENTO DI ABITATI E DI DIFESA DEI MEDESIMI DA FRANE, ALLUVIONI E FRANE (prosp.21)

Per queste opere che non hanno caratteristiche tecniche proprie, ma rientrano singolarmente in qualcuna delle ordinarie categorie di lavori, differenziandosi solo per lo scopo, varranno volta per volta i criteri e le avvertenze indicate per la categoria alla quale tecnicamente appartengono.

X - B O N I F I C H E (prospetto 22)

Per tale branca, per quanto la Direzione Generale della Bonifica e della Colonizzazione del Ministero dell'Agricoltura e delle Foreste abbia inviato agli uffici Regionali e Compartimentali del Genio Civile le circolari nº 5089 del 10 agosto u.s. e nº 5094 del 26 agosto u.s. aventi lo scopo di formulare programmi di lavori di bonifica d'immediata urgenza, fra i quali quelli di ripristino di opere danneggiate, l'indagine di questo Ministero essendo invece diretta ad accertare i danni arrecati dalle azioni belliche a tale categoria di opere pubbliche per il necessario inquadramento nel piano generale di ricostruzione, si è reputato necessario di concerto col suddetto Dicastero, prov=

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

IX - CAPEL DI CONSOLIDAMENTO DI ABITATI E DI DIFESA
DEI MOVIMENTI DI FRANE, ALLUVIONI E FRANE (prosp.21)

Per queste opere, che non hanno caratteristiche tecniche proprie, ma rientrano singolarmente in qualcuna delle ordinarie categorie di lavori, differenziandosi solo per lo scopo, varranno volta per volta i criteri e le avvertenze indicate per la categoria alla quale tecnicamente appartengono.

X - B O N I F I C H E (prospetto 22)

Per tale branca, per quanto la Direzione Generale della Bonifica e della Colonizzazione del Ministero dell'Agricoltura e delle Foreste abbia inviato agli uffici Regionali e Compartimentali del Genio Civile le circolari nº 5033 del 10 agosto u.s. e nº 5094 del 26 agosto u.s. aventi lo scopo di formulare programmi di lavori di bonifica d'immediata urgenza, fra i quali quelli di ripristino di opere danneggiate, l'indagine di questo Ministero essendo invece diretta ad accertare i danni arrecati dalle azioni belliche a tale categoria di opere pubbliche per il necessario inquadramento nel piano generale di ricostruzione, si è reputato necessario di concerto col suddetto Dicastero, provvedere con lo stesso criterio unitario anche al rilevamento statistico delle opere di bonifica danneggiate.

Pertanto, per ciascun comprensorio, appartenente alle due categorie indicate dall'art.2 del R.D.L. 13 febbraio 1933 nº 215, saranno

./.

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

indicati; la superficie in ettari, i Comuni in cui essa ricade, il si= stema di bonifica seguito o cioè, se per scolo naturale o a gravità, per colmata o per esaurimento meccanico e saranno forniti tutti gli elementi discriminatori del danno enumerati nel prospetto allegato relativo a tale branca.

Si metteranno in evidenza: la parte del comprensorio sommersa o diventata acquitrinosa e quindi sottratta alla coltivazione; i mac= chinari idrovori esportati totalmente o parzialmente o quelli comun= que danneggiati; nonchè le ostruzioni praticate lungo i canali e loro foci.

Per la valutazione del danno e per il ripristino delle opere si fa riferimento alle norme di carattere generale contenute nella pre= sente.

Non ritengo superfluo rinnovare infine l'avvertenza della maggio= re sollecitudine nell'espletamento del lavoro i cui risultati sarà be= ne vengano trasmessi gradualmente a mano a mano che esso sia compiuto per ciascuna categoria di opere con l'indicazione del personale che lo ha espletato dal quale risulterà in tal modo il grado di diligenza e di solerzia.

Prego accusare ricezione della presente e dare assicurazione di tempestivo adempimento.

P. IL MINISTRO
F.to Bruno

PER COPIA CONFORME:
IL DIRETTORE CAPO DIVISIONE

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

Si metteranno in evidenza: la parte del comprensorio sommersa o diventata acquitrinosa e quindi sottratta alla coltivazione; i macchinari idrovori esportati totalmente o parzialmente e quelli comunque danneggiati; nonchè le ostruzioni praticate lungo i canali e loro foci.

Per la valutazione del danno e per il ripristino delle opere si fa riferimento alle norme di carattere generale contenute nella presente.

Non ritengo superfluo rinnovare infine l'avvertenza della maggiore sollecitudine nell'espletamento del lavoro i cui risultati sarà bene vengano trasmessi gradualmente a mano a mano che esso sia compiuto per ciascuna categoria di opere con l'indicazione del personale che lo ha espletato dal quale risulterà in tal modo il grado di diligenza e di solerzia.

Prego accusare ricezione della presente e dare assicurazione di tempestivo adempimento.

p. IL MINISTRO
F.to Bruno

PER COPIA CONFORME:
IL DIRETTORE CAPO DIVISIONE
M. Vitale

5948

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

Prospetto N.° 1

Ministero dei Lavori Pubblici

— Direzione Generale dei Servizi Speciali —

FABBRICATI DI ABITAZIONE O RURALI

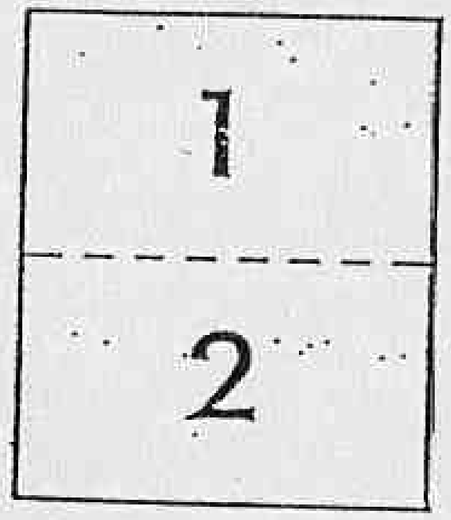
Housing & Rural Buildings

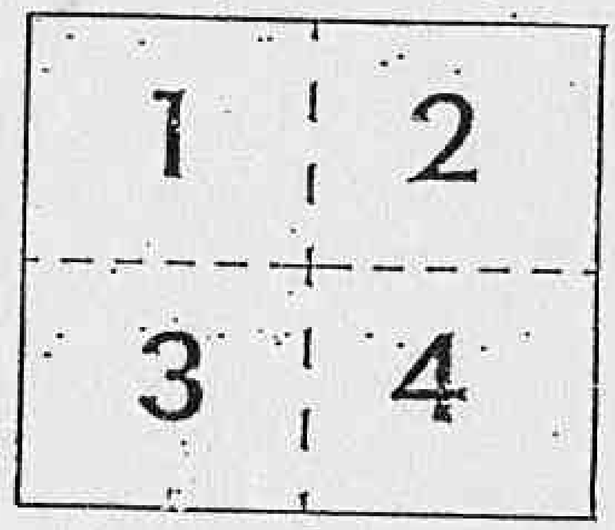
Declassified E.O. 12356 Section 3.3/NND No. 785019

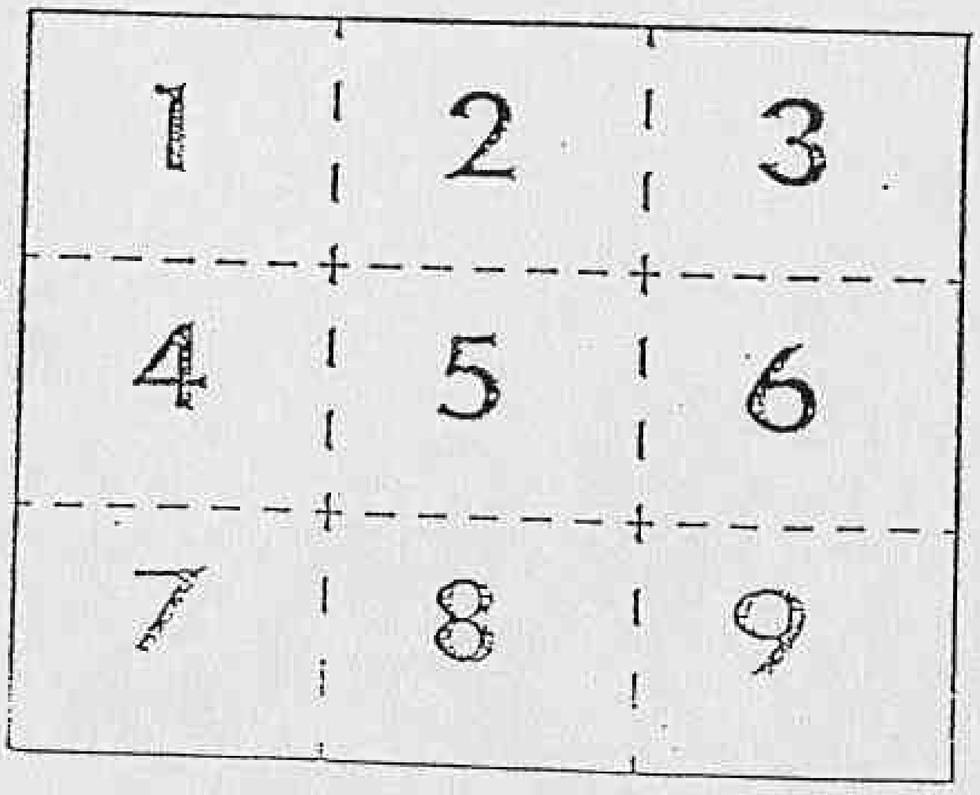
Declassified E.O. 12356 Section 3.3/NND No. 785019

MAPS AND CHARTS TOO LARGE TO FILM
ON ONE EXPOSURE ARE FILMED CLOCKWISE
BEGINNING IN THE UPPER LEFT CORNER,
LEFT TO RIGHT, AND TOP TO BOTTOM.

SEE DIAGRAMS BELOW.







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

N.° d'ordine	COMUNE	FABBRICATI DISTR.TI			FABBRICATI GRAVEMENTE DANNEGG.TI						FABBRICATI LIEVEM.TE DANNEG		
		Numero	comprendenti vani N.°	Spesa unitaria a vano	Numero	Vani distrutti. Numero	Vani distrutti. Spesa unitaria a vano.	Vani gravem.te dannegg. Numero	Vani gravem.te dannegg. Spesa unitaria a vano-	Vani lievem.te dannegg.ti Numero	Vani lievem.te dannegg.ti Spesa unitaria a vano-	Numero	Numero Vani dannegg.ti	Spesa unitaria per va danneggiato
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	1													

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

VEMENTE DANNEGG.TI		FABBRICATI LIEVEM.TE DANNEGG.TI			FABBISOGNO PER LE RIPARAZ.NI E RICOSTR.NI				VANI NECESSARI PER RICOVERARE I SENZA TETTO		ANN
Vani lievem.te dannegg.ti		Vani lievem.te dannegg.ti					MATERIALI OCCORRENTI				
Numero	Spesa unitaria a vano -	Numero	Spesa unitaria a vano -	Numero	Numero Vani dannegg.ti	Spesa unitaria per vano danneggiato —	Spesa complessiva	Genere	Quantità	Giornate Operai	Numero	Spesa unitaria.	
10		11	12	13	14	15	16	17	18	19	20	21	

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

BBISOGNO PER LE RIPARAZ.^NI E RICOSTR.^NI				VANI NECESSARI PER RICOVERARE I SENZA TETTO		ANNOTAZIONI
pesa pless.^va	MATERIALI OCCORRENTI		Giornate Operai.			
	Genere	Quantita'		Numero	Spesa unitaria.	
16	17	18	19	20	21	

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

Totali

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

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

Prospetto N° 2

Ministero dei Lavori Pubblici

— Direzione Generale dei Servizi Speciali —

EDIFICI DI PROPRIETÀ O DI USO DELLO STATO

State Buildings
or those used by the State

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

EDIFICI DI PROPRIETÀ
O DI USO DELLO STATO

State Buildings

or those used by the State

5916

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

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

N° d'ordine	COMUNE	FABBRICATI DISTRUTTI			FABBRICATI DANNEGGIATI GRAVEMENTE			FA GI
		DESTINAZIONE	Volume approssimato vuoto per pieno o N° dei vani mc. | N°	Spesa unitaria a mc. o per vano	DESTINAZIONE	Volume approssimato vuoto per pieno o N° dei vani mc. | N°	Spesa unitaria a mc. o per vano	DE
1	2	3	4	5	6	7	8	

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

FABBRICATI DANNEGGIATI GRAVEMENTE			FABBRICATI DANNEGGIATI LIEVEMENTE			FABBISOGNO PER LE RIPARAZIONI E RICOSTRUZIONI			
DESTINAZIONE	Volume approssimato vuoto per pieno o N.° dei vani mc. / N.°	Spesa unitaria a mc. o per vano	DESTINAZIONE	Volume approssimato vuoto per pieno o N.° dei vani mc. / N.°	Spesa unitaria a mc. o per vano	Spesa complessiva	Materiali occorrenti Genere	Materiali occorrenti Quant.tà	Giornate operai
6	7	8	9	10	11	12	13	14	15

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

CATI DANNEGGIATI LIEVEMENTE			FABBISOGNO PER LE RIPARAZIONI E RICOSTRUZIONI				ANNOTAZIONI
ONE	Volume approssimato vuoto per pieno o N.° dei vani mc. | N.°	Spesa unitaria a mc. o per vano	Spesa complessiva	Materiali ~~occorrenti~~ occorrenti Genere	Quant.tà	Giornate operai	
	10	11	12	13	14	15	

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

Totali

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

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

Prospetto N° 3

Ministero dei Lavori Pubblici

— Direzione Generale dei Servizi Speciali —

EDIFICI ADIBITI DALL'AMMINISTRAZIONE PROVINCIALE AD USI DI PUBBLICO INTERESSE

Provincial Buildings used with Public Interest

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

EDIFICI ADIBITI DALL'AMMINISTRAZIONE PROVINCIALE AD USI DI PUBBLICO INTERESSE

Provincial Buildings used for Public Purposes

5945

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

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

N° d'ordine	COMUNE	FABBRICATI DISTRUTTI			FABBRICATI DANNEGGIATI GRAVEMENTE			F G
		DESTINAZIONE	Volume approssimato vuoto per pieno o N.a dei vani mc. / N.a	Spesa unitaria a mc. o per vano	DESTINAZIONE	Volume approssimato vuoto per pieno o N.a dei vani mc. / N.a	Spesa unitaria a mc. o per vano	D
1	2	3	4	5	6	7	8	

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

BBRICATI DANNEGTI GRAVEMENTE			FABBRICATI DANNEGGIATI LIEVEMENTE			FABBISOGNO PER LE RIPARAZIONI E RICOSTRUZIONI				AM
TINAZIONE	Volume approssimato vuoto per pieno o N.ro dei vani mc. 1 N.o	Spesa unitaria a mc. o per vano	DESTINAZIONE	Volume approssimato vuoto per pieno o N.ro dei vani mc. 1 N.o	Spesa unitaria a mc. o per vano	Spesa complessiva	Materiali occorrenti		Giornate operai	
							Genere	Quant.vi		
6	7	8	9	10	11	12	13	14	15	

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

DANNEGGIAMENTE		FABBISOGNO PER LE RIPARAZIONI E RICOSTRUZIONI				ANNOTAZIONI
Volume approssimato vuoto per pieno dei vani mc. 1 N°	Spesa unitaria a mc. o per vano	Spesa complessiva	Materiali occorrenti		Giornate operai	
			Genere	Quant.vi		
10	11	12	13	14	15	

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

Totali

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

1484

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

Prospetto Nº 4

Ministero dei Lavori Pubblici

— Direzione Generale dei Servizi Speciali —

EDIFICI ADIBITI DAI COMUNI AD USI DI PUBBLICO INTERESSE

Communal Buildings used in the Public Interest

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

EDIFICI ADIBITI DAI COMUNI AD USI DI PUBBLICO INTERESSE

Communal Buildings
used in the Public Interest

5944

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

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

N° d'ordine	COMUNE	FABBRICATI DISTRUTTI			FABBRICATI DANNEGGIATI GRAVEMENTE			FA GIA
		DESTINAZIONE	Volume approssimato vuoto per pieno o N° dei vani mc. | H²	Spesa unitaria a mc. o per vano	DESTINAZIONE	Volume approssimato vuoto per pieno o N° dei vani mc. | H²	Spesa unitaria a mc. o per vano	DES
1	2	3	4	5	6	7	8	

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

FABBRICATI DANNEGGIATI GRAVEMENTE			FABBRICATI DANNEGGIATI LIEVEMENTE			FABBISOGNO PER LE RIPARAZIONI E RICOSTRUZIONI				AN
DESTINAZIONE	Volume approssimato vuoto per pieno o N° dei vani mc. | N°	Spesa unitaria a mc. o per vano	DESTINAZIONE	Volume approssimato vuoto per pieno o N° dei vani mc. | N°	Spesa unitaria a mc. o per vano	Spesa complessiva	Materiali occorrenti		Giornate operai	
							Genere	Quant.vi		
6	7	8	9	10	11	12	13	14	15	

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

NNEG-NTE	FABBISOGNO PER LE RIPARAZIONI E RICOSTRUZIONI				ANNOTAZIONI
-go no ri	Spesa unitaria a mc. o per vano	Spesa complessiva	Materiali occorrenti: Genere	Materiali occorrenti: Quant.vi	Giornate operai	
	11	12	13	14	15	

Prospetto N.° 5

Ministero dei Lavori Pubblici

Direzione Generale dei Servizi Speciali

EDIFICI ADIBITI DA ENTI DIVERSI AD USI DI PUBBLICO INTERESSE

Institutional
Various Buildings used in the Public Interest

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

EDIFICI ADIBITI DA ENTI DIVERSI AD USI DI PUBBLICO INTERESSE

Institutional
Various Buildings used in the Public Interest

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

1492

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

N° d'ordine	COMUNE	FABBRICATI DISTRUTTI			FABBRICATI DANNEGGIATI GRAVEMENTE			FA GI
		DESTINAZIONE	Volume approssimato vuoto per pieno o N° dei vani m.c. | N°	Spesa unitaria a m.c. o per vano	DESTINAZIONE	Volume approssimato vuoto per pieno o N° dei vani m.c. | N°	Spesa unitaria a m.c. o per vano	DE
1	2	3	4	5	6	7	8	

1493

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

FABBRICATI DANNEGGIATI GRAVEMENTE			FABBRICATI DANNEGGIATI LIEVEMENTE			FABBISOGNO PER LE RIPARAZIONI E RICOSTRUZIONI			
DESTINAZIONE	Volume approssimato vuoto per pieno o N° dei vani m.c. | N°	Spesa unitaria a m.c. o per vano	DESTINAZIONE	Volume approssimato vuoto per pieno o N° dei vani m.c. | N°	Spesa unitaria a m.c. o per vano	Spesa complessiva.	Materiali occorrenti: Genere	Materiali occorrenti: Quantità	Giornate operai
6	7	8	9	10	11	12	13	14	15

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

BRICATI DANNEGGIATI LIEVEMENTE			FABBISOGNO PER LE RIPARAZIONI E RICOSTRUZIONI				ANNOTAZIONI
NAZIONE	Volume approssimato vuoto per pieno o N.ro dei vani m.c. | N.ro	Spesa unitaria a m.c. o per vano	Spesa complessiva.	Materiali occorrenti		Giornate operai	
				Genere	Quantità		
9	10	11	12	13	14	15	

Prospetto N° 6

Ministero dei Lavori Pubblici

(Direzione Generale dei Servizi Speciali)

EDIFICI SCOLASTICI

Schools

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

EDIFICI SCOLASTICI

Schools

5942

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

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

N° d'ordine	COMUNE	ENTE PROPRIETARIO	GENERE DI SCUOLA	EDIFICI DISTRUTTI			EDIFICI GRAVEME		
				NUMERO	Comprendente N° Aule.	Spesa unitaria ad aula.	NUMERO	Aule distrutte	
								Numero	Costo unitario ad aula per la ricostruz^ne
1	2	3	4	5	6	7	8	9	10

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

STRUTTI	EDIFICI GRAVEMENTE DANNEGGIATI						EDIFICI LIEVEM.te DANNEGG.ti			FABBISOGNO PER LE RIPARAZ.ni E RICOSTRV			
Spesa unitaria ad aula.	NUMERO	Aule distrutte		Aule grav.te dannegg.		Aule liev.te dannegg.		Numero	Numero Aule dann.te	Costo unitario ad aula per la riparaz.ne	Spesa complessiva	Materiali occorrenti .	
		Numero	Costo unitario ad aula per la ricostruz.ne	Numero	Costo unitario ad aula per la riparaz.ne	Numero	Costo unitario ad aula per la riparaz.ne					Genere	Quantitativo
7	8	9	10	11	12	13	14	15	16	17	18	19	20

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

GNO PER LE RIPARAZ^NI E RICOSTRVZ.^NI

Materiali occorrenti .			ANNOTAZIONI
Genere	Quantitativo	Giornate Operai	
19	20	21	

Prospetto N° 7

Ministero dei Lavori Pubblici

Direzione Generale dei Servizi Speciali

CHIESE ED EDIFICI COMUNQUE INTERESSANTI IL CULTO

Churches or other Religious Buildings

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

CHIESE ED EDIFICI COMUNQUE INTERESSANTI IL CULTO

Churches or other Religious Buildings

5941

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

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

CHIESE PARROCCHIALI OD ASSIMILAT

N.° d'ordine	COMUNE	DISTRUTTE	DANNEGGIATE		FABBISOGNO PER LE RICOSTR.NI E RIPA			
			GRAVEM.te	LIEVEMEN.te	MATERIALI		GIORNATE	
					Genere	QUANTITÀ M.i	OPERAI	

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

HIALI OD ASSIMILATE				CHIESE NON PARROCCHIALI OD ASSIMILATE ED EDIF ATTINENTI AL CULTO						
GNO PER LE RICOSTR^NI E RIPARAZ^NI				DISTRUTTE	DANNEGGIATE		FABBISOGNO PER LE RICOSTRUZ^NI E RIPA			
ERIALI		GIORNATE	SPESA		GRAVEM^TE	LIEVEM^TE	MATERIALI		GIORNATE	SP
enere	QUANTITÀ VI	OPERAI					GENERE	QUANTITÀ VI	OPERAI	

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

CCHIALI OD ASSIMILATE ED EDIFICI
TI AL CULTO

BISOGNO PER LE RICOSTRUZ^NI E RIPARAZ^NI

MATERIALI		GIORNATE	SPESA
GENERE	QUANTITAT.VI	OPERAI	

ANNOTAZIONI

Prospetto N.° 8

Ministero dei Lavori Pubblici

— Direzione Generale dei Servizi Speciali —

EDIFICI ADIBITI A PUBBLICI SPETTACOLI

Public Show Houses

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

EDIFICI ADIBITI A PUBBLICI SPETTACOLI

Public Show Houses

5949

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

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

N.° d'ordine	COMUNE	DISTRUTTI	DANNEGGIATI		Costo a m.c. vuoto per pieno delle ricostruzioni e riparazioni per edifici			DESTINAZIONE DEGLI EDIFICI	FABBISO	
			Gravemente	Lievemente	DISTRUTTI	DANNEGGIATI- Gravem.te	DANNEGGIATI- Lievem.te			Spesa
1	2	3	4	5	6	7	8	9		10

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

DESTINAZIONE DEGLI EDIFICI	FABBISOGNO PER LE RIPARAZIONI E RICOSTRUZ.NI				ANNOTAZIONI
	Spesa	MATERIALI OCCORRENTI		Giornate operai	
		Genere	Quantitativi		
9	10	11	12	13	

Prospetto N° 9

Ministero dei Lavori Pubblici

— Direzione Generale dei Servizi Speciali —

EDIFICI AD USO INDUSTRIALE ED AGRICOLO

Industrial and Agricultural Buildings

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

EDIFICI AD USO
INDUSTRIALE ED AGRICOLO

Industrial and Agricultural Buildings

5939

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

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

N.° d'ordine	COMUNE	INDICAZIONE DEL GENERE DI STABILIMENTO			ENTE O D PROPRIET
		DISTRUTTO	DANNEGGIATO		
			gravemente	lievemente	
1	2	3	4	5	6

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

LIMENTO —	ENTE O DITTA PROPRIETARI	DESCRIZIONE SINTETICA DEI			
ATO		ALL' EDIFICIO	AGLI IMPIANTI DI		
lievemente			Produzione e Trasformaz.ne	Utilizzazione	Condu
5	6	7	8	9	

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

...ITETICA DEI DANNI			FABBISOGNO PER RIMETTERE IN ESERCIZIO		
IMPIANTI DI				MACCHINARI E MATERIA	
Utilizzazione	Conduzione e Trasporto	ALLE DOTAZIONI MOBILI UTILIZZATRICI –	Spesa complessiva	Genere	Quanti
9	10	11	12	13	14

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

...O PER RIMETTERE IN ESERCIZIO L'IMPIANTO			
MACCHINARI E MATERIALI		GIORNATE OPERAI	ANNOTAZIONI
Genere	Quantitativi		
13	14	15	

Prospetto N.° 10

Ministero dei Lavori Pubblici

— Direzione Generale dei Servizi Speciali —

VIABILITÀ MINORE

Minor Roads

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

VIABILITÀ MINORE

Minor Roads

5938

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

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

N.° d'ordine	INDIVIDUAZIONE DELLA STRADA			TRATTI STRADALI		AL CORPO STRADALE					ALLE
				DANNEGGIATI		TRINCEE da sgombrare		RILEVATI da costituire			TRATTI danneg- giati.
	CLASSE	ESTREMI	ENTE PROPRIETARIO	Numero	Lunghezza complessiva ml.	lungh.	vol.	lungh.	Vol.	SPESA occorrente	ml.
1	2	3	4	5	6	7	8	9	10	11	12

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

PARTI DELLE OPERE DANNEGG

RPO STRADALE			ALLE GALLERIE			ALLE OPERE DI CONTENIMENTO E DI DIFESA.			TOMBINI	
RILEVATI da costituire		SPESA occorrente	TRATTI danneggiati. ml.	GENERE DEL DANNO	SPESA occorrente	TRATTI danneggiati. ml.	STRUTTURA	SPESA occorrente	Tombini e ponticelli sino a m. 6 di luce da riparare o ricostruire	SINTETICA DESCRIZ
Lungh.	Vol.									DISTRUTTI
9	10	11	12	13	14	15	16	17	18	19

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

ERE DANNEGGIATE ED ENTITÀ DEI DANNI

TOMBINI — PONTICELLI — PONTI						PAVIMENTAZIONE	
Importo ricostruire	SINTETICA DESCRIZIONE DEL DANNO AI PONTI					TRATTI DANNEGGIATI	
	DISTRUTTI	DANNEGGIATI		SPESA occorrente		te Gravem.	tu Lievem.	SISTE PAVIME
		GRAVEMENTE	LIEVEMENTE					
	19	20	21	22		23	24	

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

DEI DANNI

FABBISOGNO PER LE RICOSTR.NE

	PAVIMENTAZIONE STRADALE				CASE CANTONIERE					FABBISOGNO PER LE RICOSTR.NE	
	TRATTI DANNEGGIATI					DANNEGGIATE			SPESA complessiva	MATERIALI OCCORRENTI	
SPESA occorrente	Gravem.te	Lievem.te	SISTEMA DI PAVIMENTAZIONE	SPESA occorrente	DISTRUTTE	Gravem.te	Lievem.te	SPESA occorrente		GENERE	Quantità
22	23	24	25	26	27	28	29	30	31	32	33

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

RE	FABBISOGNO PER LE RICOSTR.ni E RIPARAZ.ni				
ESA	SPESA complessiva	MATERIALI OCCORRENTI		Giornate operai	ANNOTAZIONI
rente		GENERE	Quantitativi		
	31	32	33	34	

Prospetto N.° 12

Ministero dei Lavori Pubblici

— Direzione Generale dei Servizi Speciali —

OPERE MARITTIME

Maritime Works

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

Direzione Generale dei Servizi Speciali

OPERE MARITTIME

Maritime Work.

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

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

PARTI DELL' OPERA DAN

N.° d'ordine	DENOMINAZIONE DELL' OPERA	Categoria cui appartiene	Classe cui appartiene	OPERE FORANEE			BANCHINE			ARREDAMENTI Grue scaricatori ecc.		
				Lungh.	m.c.	Spesa	Lungh.	m.c.	Spesa	N.°	Potenza	Spesa
1	2	3	4	5	6	7	8	9	10	11	12	13

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

DELL' OPERA DANNEGGIATE ED ENTITA' DEI DANNI

NE	ARREDAMENTI Grue scaricatori ecc.			BACINI DI CARENAGGIO Loro parti e meccanismi					EDIFICI PORTUALI Capitanerie - dogane - Staz.ni Sanitarie silos ecc				Salpamento per ripristino	
Spesa	N.°	Potenza	Spesa	Lungh.	m. c	Battello porta	Meccanismi	Spesa	Distrutti	Gravem.te	Lievem.te	Spesa	m. c	Spe
10	11	12	13	14	15	16	17	18	19	20	21	22	23	2

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

I DANNI								FABBISOGNO PER LE RIPARAZ.NI E RICOST.NI			
I PORTUALI ane - Staz.ni Sanitarie silos ecc			Salpamento di mass per ripristino fondali		Danni alle opere di di difesa delle spiagge			Spesa complessiva	Materiali occorrenti		Giornate operai	ANNO
Lievem.te	Lievem.te	Spesa	m.c	Spesa	Lung.	m.c.	Spesa		Genere	Quantità		
21	22		23	24	25	26	27	28	29	30	31	

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

opere di le spiagge — Spesa	FABBISOGNO PER LE RIPARAZ.NI E RICOST.NI				ANNOTAZIONI
	Spesa complessiva	Materiali occorrenti		Giornate operai	
		Genere	Quantità		
27	28	29	30	31	

Prospetto Nº 13

Ministero dei Lavori Pubblici

— Direzione Generale dei Servizi Speciali —

OPERE IDRAVLICHE E DI NAVIGAZIONE

Hydraulic + Navigation works

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

OPERE IDRAVLICHE E DI NAVIGAZIONE

Hydraulic & Navigation Works

5936

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

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

N.° d'ordine	DENOMINAZIONE DELL' OPERA	CATEGORIA CUI APPARTIENE	CLASSE CUI APPARTIENE	PROVINCIA	COMUNE O COMUNI IN CUI RICADE L'OPERA —	BACINO IDROGRAFICO	CORSO D'ACQUA INTERESSANTE L'OPERA	ARGI	
								Lungh.za	m c
	1	1	2	2 bis	3	4	5	6	

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

*	*	PARTI DELL'OPERA DANNEGGIATE												E
NO AFICO	CORSO D'ACQUA INTERESSANTE L'OPERA	ARGINATURE			DIFESE DI SPONDA ED IN ALVEO			CANALI NAVIGABILI —			CHIAVICHE		SIFONI	
		Lungh.za	m.c	Spesa	Lungh.	m.c.	Spesa	Lungh.	m.c.	Spesa	N°	Spesa	N°	Spes
	5	6	7	8	9	10	11	12	13	14	15	16	17	18

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

DANNEGGIATE ED ENTITÀ DEI DANNI

LI —	CHIAVICHE		SIFONI		SOSTEGNI E CONCHE DI NAVIGAZ^NE		VIE ALZAIE		ALLOGGIAMENTI E MAGAZZINI IDRAULICI			SPESA COMPLESS^VA	
pesa	N.°	Spesa	N.°	Spesa	N.°	Spesa	Lungh.	Spesa	N.°	Materiali di dotazione -	Spesa		
14	15	16	17	18	19	20	21	22	23	24	25	26	

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

NI						
MAGAZZINI IDRAULICI		SPESA COMPLESSIVA	MATERIALI OCCORRENTI		Giornate operai	ANNOTAZIONI
riali zione.	Spesa		Genere	Quantità.		
25		24	27	26	29	

Prospetto N° 14

Ministero dei Lavori Pubblici

— Direzione Generale dei Servizi Speciali —

DERIVAZIONI ED UTILIZZAZIONE DELLE ACQUE PUBBLICHE

Hydraulic Developments
(Reservoirs, Canals etc)

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

DERIVAZIONI ED UTILIZZAZIONE DELLE ACQUE PUBBLICHE

Hydraulic Developments
(Reservoirs, Canals etc)

5935

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

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

N. d'ordine	DENOMINAZIONE DITTA CONCESSIONARIA		PROVINCIA	COMUNE O COMUNI INTERESSANTI LA DERIVAZIONE	CORSO D'ACQUA DA CUI SI EFFETTUA LA DERIVAZIONE	USO DELLA DERIVAZIONE	PA	
	GRANDE DERIVAZIONE	PICCOLA DERIVAZIONE					OPERE DI RACCOLTA, DI REGOLAZIONE E DI DERIVAZIONE PRINCIPALI ED ACCESSORIE	CA
							Numero	Struttura in mc.	Spesa	Lungh
1	2	3	4	5	6	7	8	9	10	11

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

PARTI DELL'OPERA DANNEGGIATE ED

OPERE DI RACCOLTA, DI REGOLAZIONE E DI DERIVAZIONE PRINCIPALI ED ACCESSORIE			CANALI ADDUTTORI DELL'ACQUA			VASCHE DI CARICO SFIORATORI E CANALI DI SCARICO			DIGHE DI R				
									IN TERRA		IN MURATURA A GRAVITA'		
Numero	Struttura in mc.	Spesa	Lungh.	Struttura in mc.	Spesa	Numero	Struttura in mc.	Spesa	mc.	Spesa	Lungh.	mc.	Spesa
8	9	10	11	12	13	14	15	16	17	18	19	20	21

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

EGGIATE ED ENTITÀ DEI DANNI

FA

DIGHE DI RITENUTA							CONDOTTE FORZATE			FABBRICATI DELLE CENTRALI, SOTTOSTAZIONI ED ACCESSORI				MACCHINARI DI PRODUZIONE		S CO
TERRA		IN MURATURA A GRAVITA'			IN CALCESTRUZZO											
.	Spesa	Lungh.	mc.	Spesa	Lungh.	mc.	Spesa	Lungh.	Diam.	Spesa	Distrutti	Grav. ti dann.	Liev. fc dann. ti	Spesa	Potenza	Spesa	S
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	

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

				FABBISOGNO PER LA MESSA IN PRISTINO			
TI DELLE OTTOSTA-CESSORI	MACCHINARI DI PRODUZIONE		SPESA COMPLESSIVA	MATERIALI ~~E STRUMENTI~~ E MACCHINARI OCCORRENTI		GIORNATE OPERAI	ANNOTAZIONI
Spesa	Potenza	Spesa		Genere	Quantità		
31	32	33	34	35	36	37	

Prospetto N: 15

Ministero dei Lavori Pubblici

— Direzione Generale dei Servizi Speciali —

LINEE DI TRASMISSIONE E DI DISTRIBUZIONE DELL'ENERGIA ELETTRICA

Elec. Transmission and Distribution Lines

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

Direzione Generale dei Servizi Speciali

LINEE DI TRASMISSIONE E DI DISTRIBUZIONE DELL'ENERGIA ELETTRICA

Elec. Transmission and Distribution Lines.

5934

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

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

N.° d'ordine	DENOMINAZIONE DELLA LINEA E DELLA DITTA				PROVINCIA o PROVINCIE	COMUNE o COMUNI ATTRAVERSATI	LUNGHEZZA IN METRI DELLA LINEA	PARTI DEL SOSTEGNI		
	TENSIONE INF. A 5000 VOLTA		TENSIONE SUP. A 5000 VOLTA							
	Estremi	Vallaggio	Estremi	Vallaggio				Genere	Numero	Sp
1	2	3	4	5	6	7	8	9	10	

1343

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

E	LUNGHEZZA	PARTI DELLE OPERE DANNEGGIATE ED ENTITA' DEI DANNI										CABINE DI TRASFORMAZIONE DI SEZIONAMENTO COMPRESI I MATERIALI CHE CONTENGO				
		SOSTEGNI			CONDUTTORI				ISOLATORI			All'aperto		In fabbrica		
HI	IN METRI															
RSATI	DELLA LINEA	Genere	Numero	Spesa	Lungh.	Diam.	Metallo	Spesa	N°	Tipo	Spesa	N°	Spesa	Distrutti	Danneggiati	Spe
	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	2

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

DEI DANNI				FABBISOGNO PER LA MESSA IN PRISTINO				
LINE DI TRASFORMAZIONE E LAVORAZIONAMENTO COMPRESI I MATERIALI CHE CONTENGONO				SPESA COMPLESSIVA	MATERIALI E MACCHINARI OCCORRENTI		GIORNATE OPERAI	ANNOTAZIONI
all'aperto	In fabbricati							
Spesa	Distrutti	Danneggiati	Spesa		Genere	Quantità		
20	21	22	23	24	25	26	27	

Prospetto N. 16

Ministero dei Lavori Pubblici

— Direzione Generale dei Servizi Speciali —

ACQUEDOTTI

Aqueducts & water systems

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

ACQUEDOTTI

Aqueducts & water systems

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

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

N.° d'ordine	COMUNI SERVITI DALL' ACQUEDOTTO		INDIVID	
			ALLE OPERE DI ALLACCIAMENTO DELLE	
	Singolarmente od in Consorzio	Capo consorzio	Descrizione sintetica	MATERIALI OCCORRENTI PE
				Genere
1	2	3	4	5

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

INDIVIDUAZIONE SINTETICA E

ALLACCIAMENTO DELLE SORGENTI — AI MANUFATT

etica	MATERIALI OCCORRENTI PER LE RIPAR.NI		Spesa occorrente per le riparazioni	Pozzetti distrutti o danneggiati N°	Serbatoi e lavatoi	Ponti e briglie danneggiati o distrutti N°
	Genere	Quantitativi				
	5	6	7	8	9	10

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

CA E NUMERICA DEI DANNI

MANUFATTI -					ALLE CONDUTTUR				
lavatoi	Ponti e briglie danneggiati o distrutti N°	MATERIALI OCCORRENTI PER LE RIPAR.NI		Spesa occorrente per la riparazione	Tratti distrutti o danneggiati N°	Lunghezza complessiva —	Diametro dei tubi-	Materiali costituenti i tratti danneggiati o distrutti.	MATERIALI OCCORRENTI PE
		Genere	Quantitativi						Genere
	10	11	12	13	14	15	16	17	18

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

DANNI APPORTATI =

CONDUTTURE - AGLI APPARECCHI -

...riali ...i tratti ...distrutti.	MATERIALI OCCORRENTI PER LE RIPARAZIONI		Spesa occorrente per la riparazione	Saracinesche			Valvole riduttrici di pressione		sfiati		... le
	Genere	Quantitativi		N°	Diametro	pressione massima d'esercizio	N°	Caratteristiche	N°	Tipo	
	18	19	20	21	22	23	24	25	26	27	

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

RECCHI — sfiati			AGLI IMPIANTI DI SOLLEVAMENTO			Spesa globale per rimettere in esercizio l'acquedotto —	Giornate Operai
N°	Tipo	Spesa occorrente per le riparazioni.	Individuazione sintetica del danno —	Macchinari e materiali occorrenti per le riparazioni	Spesa occorrente		
26	27	28	29	30	31	32	33

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

			Spesa globale per rimettere in esercizio l'acquedotto —	Giornate Operai	ANNOTAZIONI	
PIANTI DI SOLLEVAMENTO						
a del danno —	Macchinari e materiali occorrenti per le riparazioni	Spesa occorrente				
	30	31	32	33		

Prospetto N° 17

Ministero dei Lavori Pubblici

Direzione Generale dei Servizi Speciali

FOGNATURE

Sewers

5422

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

FOGNATURE

Sewers

5932

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

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

TRATTI DI COLLETTORI DANNEGGIATI

N.° d'ordine	COMUNE	NUMERO	LUNGHEZZE COMPLESSIVE	SEZIONE		STRUTTURA	MATERIALE PER LE
				FORMA	DIMENSIONI		GENE
1	2	3	4	5	6	7	8

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

ORI DANNEGGIATI O DISTRUTTI

POZZETTI DANNEGGIATI O DISTRUTTI

DI

SIONI	STRUTTURA	MATERIALI OCCORRENTI PER LE RIPARAZIONI		SPESA OCCORRENTE PER RIPARARLI	NUMERO	MATERIALI OCCORRENTI PER RIPARARLI		SPESA OCCORRENTE PER RIPARARLI	INDIVIDUAZION DEL DA
		GENERE	QUANT.VI			GENERE	QUANT.VI		
	7	8	9	10	11	12	13	14	15

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

IMPIANTI

RUTTI		DI SOLLEVAMENTO			DI DEPURAZIONE BIOLOGIC	
NTI	SPESA OCCORRENTE PER RIPARARLI	INDIVIDUAZIONE SINTETICA DEL DANNO	MATERIALI OCCORRENTI PER LE RIPARAZIONI		INDIVIDUAZIONE SINTETICA DEL DANNO	MATERIALI OCCOR PER LE RIPARA
ANT. V			GENERE	QUANT. VI		GENERE
13	14	15	16	17	18	19

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

EPURAZIONE BIOLOGICA				SPESA		
NE SINTETICA DANNO	MATERIALI OCCORRENTI PER LE RIPARAZIONI		SPESA OCCORRENTE PER RIPARARLI	SPESA COMPLESSIVA	GIORNATE OPERAI	ANNOTAZIONI
	GENERE	QUANT.				
18	19	20	21	22	23	24

Prospetto N° 18

Ministero dei Lavori Pubblici

-Direzione Generale dei Servizi Speciali-

CIMITERI

Cimiteri.

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

CIMITERI

Cimiteriè.

5931

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

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

N.° d'ordine	COMUNE	DESCRIZIONE SINTETICA DEL DA		
		Ai campi d'inumaz.ne	Alle camere mortuaria ed incisoria	All'abitazione d custode
1	2	3	4	

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

ETICA DEL DANNO			FABBISOGNO PER LE RICOSTRUZ^NI E RIPARAZ^NI				A1
			MATERIALI OCCORRENTI				
ere ncisoria	All'abitazione del custode	Alle cappelle private	Spesa complessiva	Genere	Quantitativi	Giornate opera	

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

	FABBISOGNO PER LE RICOSTRUZ^NI E RIPARAZ^NI				
	MATERIALI OCCORRENTI				
vate	Spesa complessiva	Genere	Quantitativi	Giornate opera	
	7	8	9	10	

Prospetto N° 21

Ministero dei Lavori Pubblici

Direzione Generale dei Servizi Speciali

CONSOLIDAMENTO ABITATI

Protection to habitations against floods or landslides

Handing Developments

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

CONSOLIDAMENTO ABITATI

Protection to habitations against floods or landslides

Housing Development

5930

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

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

N.° d'ordine	COMUNE	ABITATO	DESCRIZIONE SINTETICA DELL' OPERA	PAR… RISANAME… TRATTI		
				DISTRUTTI	DANNEGGIA…	
					Gravem.te	Lieve…
1	2	3	4	5	6	7

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

NE A RA	PARTI DELL'OPERA DANNEGGIATE ED ENTITA' DEI DA												DIF
	RISANAMENTO				CONVOGL.TO DELLE ACQUE SUPERF.LI				CONTENIMENTO				
	TRATTI			Spesa per le riparazioni	TRATTI			Spesa per le riparazioni	TRATTI			Spesa per le riparazioni	
	DISTRUTTI	DANNEGGIATI			DISTRUTTI	DANNEGGIATI			DISTRUTTI	DANNEGGIATI			
		Gravem.te	Lievem.te			Gravem.te	Lievem.te			Gravem.te	Lievem.te		
	5	6	7	8	9	10	11	12	13	14	15	16	17

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

ENTITÀ DEI DANNI RELATIVE A							FABBISOGNO PER LE RIPARAZIONI			
ENIMENTO			DIFESA DI SPONDA					MATERIALI		
ATTI		Spesa	TRATTI			Spesa	SPESA	GENERE	QUANTITÀ	GIORNATE OPERAI
NNEGGIATI		per le	DISTRUTTI	DANNEGGIATI		per le				
vem.te	Lievem.te	riparazioni		Gravem.te	Lievem.te	riparazioni				
14	15	16	17	18	19	20	21	22	23	24

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

FABBISOGNO PER LE RIPARAZIONI

PESA	MATERIALI		GIORNATE OPERAI	ANNOTAZIONI
	GENERE	QUANTITA'		
21	22	23	24	25

Prospetto N.° 19

Ministero dei Lavori Pubblici

—Direzione Generale dei Servizi Speciali—

MATTATOI

Slaughtering Houses

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

MATTATOI

Slaughtering House

5929

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

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

PARTI DELL' OPERA 'DAN

N° d'ordine	COMUNE	EDIFICI		IMPIANTI
		INDICAZIONE DEI DANNI	SPESA	INDICAZIONE D
1	2	3	4	5

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

OPERA DANNEGGIATE			FABBISOGNO PER LE RIPARAZIONI E RICOSTRUZIONI				
	IMPIANTI SPECIALI			MATERIALI OCCORRENTI			
SPESA	INDICAZIONE DEI DANNI	SPESA	SPESA complessiva	GENERE	Quantità	Giornate operai	A
4	5	6	7	8	9	10	

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

ATE	FABBISOGNO PER LE RIPARAZIONI E RICOSTRUZIONI				
	SPESA	MATERIALI OCCORRENTI		Giornate operai	ANNOTAZIONI
SPESA	complessiva	GENERE	Quantità		
6	7	8	9	10	

Prospetto N° 20

Ministero dei Lavori Pubblici

— Direzione Generale dei Servizi Speciali —

OSPEDALI

Hospitals

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

OSPEDALI

Hospital

5928

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

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

N° d'ordine	COMUNE	ENTE	DANNI ALL'EDIFICIO PRINCIPALE							DANNI AI PADIGLIO					
			Ambienti Distrutti.		AMBIENTI DANNEGGn				Spesa occorrente per le ricostruzioni e riparazioni	Ambienti Distrutti		AMBIENTI DANNEGGIATI			
			N°	Cubatura	Gravemente		Lievemente			N°	Cubatura	Gravemente		Lievemente	
					N°	Cubatura	N°	Cubatura				N°	Cubatura	N°	Cubatura
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

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

	DANNI AI PADIGLIONI							DANNI ALLE DIPENDENZE							DANNI AGLI UFFICI				DAN
sa nte ico- ni e zioni	Ambienti Distrutti		AMBIENTI DANNEGGIATI				Spesa occorrente per le ricostruzioni e riparazioni	Ambienti Distrutti.		AMBIENTI DANNEGGIATI				Spesa occorrente per le riparazioni e ricostruzioni	Vani distrutti	Vani danneggiati		Spesa occorrente per le riparazioni e ricostruzioni	Vani distrutti
	N°	Cubatura	Gravemente		Lievemente			N°	Cubatura	Gravemente		Lievemente				Gravemente	Lievemente		
			N°	Cubatura	N°	Cubatura				N°	Cubatura	N°	Cubatura						
	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29

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

ZE	DANNI AGLI UFFICI –				DANNI AGLI ALLOGGI DEL PERSON.LE				FABBISOGNO PER LE RIPARAZIONI E RICOSTRUZIONI				AN
Spesa occorrente per le ripa- razioni e ricostruz.ni	Vani distrutti	Vani danneggiati		Spesa occorrente per le ripa- razioni e ricostruz.ni	Vani distrutti	Vani danneggiati		Spesa occorrente per le ripa- razioni e ricostruzioni	SPESA COMPLESSIVA	MATERIALI OCCORRENTI		Giornate operai	
		Gravemente	Lievemente			Gravemente	Lievemente			Genere	Quantitativi		
24	25	26	27	28	29	30	31	32	33	34	35	36	

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

ANNI AGLI ALLOGGI DEL PERSON.LE			FABBISOGNO PER LE RIPARAZIONI E RICOSTRUZIONI				ANNOTAZIONI —
Vani danneggiati		Spesa occorrente per le riparazioni e ricostruzioni	SPESA COMPLESSIVA	MATERIALI OCCORRENTI		Giornate operai	
Gravemente	Lievemente			Genere	Quantitativi		
29	30	31	32	33	34	35	36

Prospetto N° 22

Ministero dei Lavori Pubblici

Direzione Generale dei Servizi Speciali

BONIFICHE

5927

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

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

N° d'ordine	COMPRENSORIO		Categoria dell'opera	CIRCOSCRIZIONI interessate		Sistema di Bonifica	PARTI D				
	Denominazione	Estensione		Provincia	Comuni		Estensione del terreno sommerso	ai canali			al
								Tratti		Movimento di materie per le riparazioni - m.c.	
								N°	Lunghezze		
	1	2	3	4	5	6	7	8	9	10	

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

PARTI DELL' OPERA DANNEGGIATE ED ENTITA'

Estensione del terreno sommerso — 7	ai canali			alle arginature			Spesa approssimata per riparare canali ed arginature — 14	Alle opere d'arte maggiori				Agli impianti idrovori			
	Tratti		Movimento di materie per le riparazioni - m.c. 10	Tratti		Movimento di materie per le riparazioni m.c. 13		Distrutte 15	danneggiate		Spesa occorrente per le riparazioni e ricostr.ni 18	EDIFICI			
	N.o 8	Lunghze 9		N.o 11	Lunghze 12				gravem.te 16	lievem.te 17		cubatura			Spesa per ripararli - 22
												Distrutti 19	Danneggiati gravem. 20	Danneggiati lievem. 21	

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

ED ENTITA' DEI DANNI —

FABBISOGNO PER PROCEDERE A

ri	Agli impianti idrovori e di derivazione -				Alle case poderali e dipendenze				Spesa complessiva.	Macchinari
a nte ioni r.ni	EDIFICI			MACCHINARI	cubatura appross.ta			Spese per ripararle.		Genere
	cubatura		Spesa per ripararli -	Danni	Spesa	Distrutte	Danneggiate			
	Distrutti	Danneggiati								
		gravem. lievem.					gravem. lievem.			
	19	20 21	22	23	24	25	26 27	28		

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

	FABBISOGNO PER PROCEDERE ALLA RIPARAZIONE INTEGR.LE				
endenze ese per rarle. 28	Spesa complessiva.	Macchinari e Materiali		Giornate operai	ANNOTAZIONI
		Genere	Quantitativo		

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

11 AUG 1944

124 CMB.

SECRET

JEL/rmc

Tel. 357

HEADQUARTERS
ALLIED CONTROL COMMISSION
ECONOMIC SECTION
APO 394

9 Aug 44

EE/16

SUBJECT: Destruction of Electrical Plants.

TO : AFHQ, Directorate of Works.

1. Attached is a letter from the Public Works & Utilities Sub-Commission of this HQ containing a suggestion to prevent destruction of electrical plants in Northern Italy.

2. This suggestion is submitted to you for your consideration, and forwarding to Intelligence if you consider fit.

For Captain STONE (USNR):

A G A.

A. G. ANTOLINI.
Executive Director.
Economic Section.

Copy: P.W.& U. S/C.

Encl. - ACC/124/PWU dtd 5 Aug 44

5926

MUNICIPAL ELECTRIC DEP.
MACERATA.

TO : A.M.G. Macerata.

Our Co. has taken, as soon as possible, the necessary mesaures to assure the electric supply in Macerata and other villages.

Our Co. suffered many war damages:

(a) Hydro and steam central stations.
Sforzacoste plant on Chienti River.

The dam and intake works are destroyed, Works may be rebuilt before winter time.
As cement and iron are not availables we decided to rebuilt the works in wood. We foresee 800.000 lire of amount of cost.
One unit 800 K.V.A. has been damaged. We are under way of repairs and hope to start the operation at Sept.5.
Switches high and low tensions must also be rebuilt; others civil and hydraulic works must be underta Km. The work for the plants operation will cost L. 350.000.

2) Montelupone power plant 3 hydro unit - 1200 H.P. total power badly damaged. High and low tension switches destroyed - 3 transformers damaged.
Important damages to the hydraulic works and buildings.
Transformers 2 units (750 HP. total power) - switches - buildings are under way of repair. We foresee 420.000 Lire amount of cost.

3) Montefranco central station. Mines and fire have destroyed the roof. It will not be possible repair the units - but the roof must be rebuilt before winter time. The expens is foreseen of 150.000 lire.

(b) Substations and transformers Many transformers fired damaged in the mechanical or electrical part. 3 substations destroyed. Switches destroyed in other substations. The first reconstructions will need 120.000 Lire amount of cost.

(c) High and low tension transmission lines. Some Damages have bee repaired othes are under way of repair. Considered the lack of materials we are working at only a part ot the 5925
net work, but the rehabilitation wages have been of L. 80.000

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

before winter time.
As cement and iron are not availables we decided to rebuilt the works in wood. We foresee 800.000 lire of amount of cost.
One unit 800 K.V.A. has been damaged. We are under way of repairs and hope to start the operation at Sept.5.
Switches high and low tensions must also be rebuilt; others civil and hydraulic works must be underta Km. The work for the plants operation will cost L. 350.000.

2) Montelupone power plant 3 hydro unit - 1200 H.P. total power badly damaged. High and low tension switches destroyed - 3 transformers damaged.
Important damages to the hydraulic works and buildings. Transformers 2 units (750 HP. total power) - switches - buildings are under way of repair. We foresee 420.000 Lire amount of cost.

3) Montefranco central station. Mines and fire have destroyed the roof. It will not be possible repair the units - but the roof must be rebuilt before winter time. The expens is foreseen of 150.000 lire.

(b) Substations and transformers Many transformers fired damaged in the mechanical or electrical part. 3 substations destroyed. Switches destroyed in other substations. The first reconstructions will need 120.000 Lire amount of cost.

(c) High and low tension transmission lines Some Damages have bee repaired othes are under way of repair. Considered the lack of materials we are working at only a part ot the network, but the rehabilitation wages have been of L. 80.000 and will ask 90.000 more .
Our damages can not be estimated now as we do not know the prices of materials and machinery.
We consider necessary realise at the moment - the above mentioned works in the interest of the service, and of the military and civilian purposes.
It is necessary to supply our Co. with L. 2.000.000. Our Co. has not money, and can not undertake the works if the help does not be given.
Our Co. after the bombing April 3 and suspension of the greatest part of our operation registered an operation deficit of 1.150.000 lire until to day.

5925

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

MUNICIPAL ELECTRIC DEP.
MACERATA.

TO : A.M.G. Macerata.

Our Co. has taken, as soon as possible, the necessary mesaures to assure the electric supply in Macerata and other villages.

Our Co. suffered many war damages:

(a) Hydro and steam central stations.
Sforzacoste plant on Chienti River.

The dam and intake works are destroyed, Works may be rebuilt before winter time.
As cement and iron are not availables we decided to rebuilt the works in wood. We foresee 800.000 lire of amount of cost.
One unit 800 K.V.A. has been damaged. We are under way of repairs and hope to start the operation at Sept.5.
Switches high and low tensions must also be rebuilt; others civil and hydraulic works must be underta~~-kn~~. The work for the plants operation will cost L. 350.000.

2) Montelupone power plant 3 hydro unit - 1200 H.P. total power badly damaged. High and low tension switches destroyed - 3 transformers damaged.
Important damages to the hydraulic works and buildings.
Transformers 2 units (750 HP. total power) - switches - buildings are under way of repair. We foresee 420.000 Lire amount of cost.

3) Montefranco central station. Mines and fire have destroyed the roof. It will not be possible repair the units - but the roof must be rebuilt before winter time. The expens is foreseen of 150.000 lire.

(b) Substations and transformers Many transformers fired, damaged in the mechanical or electrical part. 3 substations destroyed. Switches destroyed in other substations. The first reconstructions will need 120.000 Lire amount of cost.

(c) High and low tension transmission lines~~, Roma~~. Some Damages have been repaired, others are under way of repair. Considered the [illegible] we are working at only a part of th[illegible]

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

before winter time.
As cement and iron are not availables we decided to rebuilt the works in wood. We foresee 800.000 lire of amount of cost.
One unit 800 K.V.A. has been damaged. We are under way of repairs and hope to start the operation at Sept.5.
Switches high and low tensions must also be rebuilt; others civil and hydraulic works must be undertaken. The work for the plants operation will cost L. 350.000.

2) Montelupone power plant 3 hydro unit - 1200 H.P. total power badly damaged. High and low tension switches destroyed - 3 transformers damaged.
Important damages to the hydraulic works and buildings.
Transformers 2 units (750 HP. total power) - switches - buildings are under way of repair. We foresee 420.000 Lire amount of cost.

3) Montefranco central station. Mines and fire have destroyed the roof. It will not be possible repair the units - but the roof must be rebuilt before winter time. The expens is foreseen of 150.000 lire.

(b) Substations and transformers Many transformers fired, damaged in the mechanical or electrical part. 3 substations destroyed. Switches destroyed in other substations. The first reconstructions will need 120.000 Lire amount of cost.

(c) High and low tension transmission lines. Some Damages have been repaired, others are under way of repair. Considered the lack of materials we are working at only a part ot the network, but the rehabilitation wages have been of L. 80.000 and will ask 90.000 more .
Our damages can not be estimated now as we do not know the prices of materials and machinery.
We consider necessary realise at the moment - the above mentioned works, in the interest of the service, and of the military and civilian purposes.
It is necessary to supply our Co. with L. 2.000.000. Our Co. has not money, and can not undertake the works if the help does not be given.
Our Co. after the bombing April 3 and suspension of the greatest part of our operation registered an operation deficit of 1.150.000 lire until to day.

592

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

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

Third Chapter

083. 15 Aug 44

Attached Copy by Lt Col. Latimer which I have translated. Lt Col Latimer did not say whether he had authorized the work to proceed or whether the company had started the work

WHC

590

MUNICIPAL ELECTRIC DEP.
MACERATA.

TO : A.M.G. Macerata.

Our Co. has taken, as soon as possible, the necessary mesaures to assure the electric supply in Macerata and other villages.

Our Co. suffered many war damages:

(a) Hydro and steam central stations.
Sforzacoste plant on Chienti River.

The dam and intake works are destroyed, Works may be rebuilt before winter time.
As cement and iron are not availables we decided to rebuilt the works in wood. We foresee 800.000 lire of amount of cost.
One unit 800 K.V.A. has been damaged. We are under way of repairs and hope to start the Operation at Sept.5.
Switches high and low tensions must also be rebuilt; others civil and hydraulic works must be undertaken. The work for the plants operation will cost L. 350.000.

2) Montelupone power plant 3 hydro unit - 1200 H.P. total power badly damaged. High and low tension switches destroyed - 3 transformers damaged.
Important damages to the hydraulic works and buildings.
Transformers 2 units (750 HP. total power) - switches - buildings are under way of repair. We foresee 420.000 Lire amount of cost.

3) Montefranco central station. Mines and fire have destroyed the roof. It will not be possible repair the units - but the roof must be rebuilt before winter time. The expens is foreseen of 150.000 lire.

(b) Substations and transformers Many transformers fired damaged in the mechanical or electrical part. 3 substations destroyed. Switches destroyed in other substations. The first reconstructions will need 120.000 Lire amount of cost.

(c) High and low tension transmission lines Poles

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

cement and iron are not availables we decided to rebuilt the works in wood. We foresee 800.000 lire of amount of cost. One unit 800 K.V.A. has been damaged. We are under way of repairs and hope to start the Operation at Sept.5.
Switches high and low tensions must also be rebuilt; others civil and hydraulic works must be undertaken. The work for the plants operation will cost L. 350.000.

2) Montelupone power plant 3 hydro unit - 1200 H.P. total power badly damaged. High and low tension switches destroyed - 3 transformers damaged.
Important damages to the hydraulic works and buildings.
Transformers 2 units (750 HP. total power) - switches - buildings are under way of repair. We foresee 420.000 Lire amount of cost.

3) Montefranco central station. Mines and fire have destroyed the roof. It will not be possible repair the units - but the roof must be rebuilt before winter time. The expens is foreseen of 150.000 lire.

(b) Substations and transformers Many transformers fired damaged in the mechanical or electrical part. 3 substations destroyed. Switches destroyed in other substations. The first reconstructions will heed 120.000 Lire amount of cost.

(c) High and low tension transmission lines Some. Damages 5922 bee repaired othes are under way of repair. Considered the lack of materials we are working at only a part ot the network, but the rehabilitation wages have been of L. 30.000 and will ask 90.000 more .
Our damages can not be estimated now as we do not know the prices of materials and machinery.
We consider necessary realise at the moment the above mentioned works, in the interest of the service, and of the military and civilian purposes.
It is necessary to supply our Co. with L. 2.000.000. Our Co. has not money, and can not undertake the works if the help does not be given.
Our Co. after the bombing April 3 and suspension of the greatest part of pur operation registered an operation deficit of 1.150.000 lire until to day.

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

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

HEADQUARTERS
AMG MACERATA PROVINCE

INTER-OFFICE COMMUNICATION

To: Prov Comm.
From: Dist I P.O

(11)

Herewith Consideration + agreement 1000,000 L required + repair three (3) Centrale electrice della Azienda Elettrica Municipale. Eight (8) Comune involved.

Capt (T) Trouble

Action taken if required:

5/16/44 Give this file for use

Return when

5921

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

30

Azienda Elettrica Municipale

DIREZIONE CENTRALE

MACERATA - Via XX Settembre
Tel. 89

UFFICI DI ZONA

CORRIDONIA:
Piazza Vittorio Emanuele - Tel. 18

MONTELUPONE:
Via Isidoro Vecchiotti - Tel. 7

TREIA:
Piazza Vittorio Emanuele - Tel. 8

N. RC/ER

Da citare nella risposta

Macerata, li 5 agosto 1944

AL COMANDO ALLEATO DI

MACERATA

Questa Azienda, fu prima fra quelle della Provincia ad adottare provvedimenti tempestivi per il ripristino del servizio di distribuzione di energia elettrica nella Città di Macerata e nelle Zone servite.

Molteplici, sono i danni di guerra subiti da quenta Azienda che possono in breve così riassumersi :

a) centrali idroelettriche e termiche

1) Centrale 1931 di Sforzacosta sul Fiume Chienti

Si lamenta la distruzione quasi totale della diga di sbarramento e delle opere di presa. E' necessario provvedere prima dell'inverno alla ricostruzione delle opere.

Poichè non vi è disponibilità di cemento e ferro si ritiene conveniente di eseguire le opere tempestivamente in legname di quercia. Per questo lavoro si prevede una spesa di circa 800.000 lire.

E' stato inoltre danneggiato un gruppo idroelettrico di 600 KVA che si sta cercando di riparare per poterlo mettere in esercizio entro un mese.

Vi è da ricostruire il quadro di alta e bassa tensione.

E' necessario provvedere a forti riparazioni alle opere murarie e idrauliche della centrale e si prevede in massima di dover affrontare una spesa per il funzionamento provvisorio della centrale di lire 350.000 circa.

2) Centrale di Montelupone

5920

In questa centrale sono stati gravemente danneggiati nº 3 gruppi idroelettrici per un complesso di 1200 HP C.V. - E' stato distrutto il quadro di alta e bassa tensione e dei servizi nº 3 xtrasformatori fortemente danneggiati. Danni rilevanti alle opere murarie ed idrauliche.

./.

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

Azienda Elettrica Municipale
Mercerata

Foglio n. 2
Risposta alla lettera del 5/8/1944

Si sta rapidamente lavorando per riattare i trasformatori, 2 gruppi idroelettrici per un complesso di 750 C.V. i quadri i fabbricati ecc. onde consentire il funzionamento, prima del prossimo inverno, delle Centrali. Per questi lavori di carattere urgente e indilazionabile necessita affrontare una spesa di circa 420.000.

3) Centrale di Monteranco

La centrale è stata soggetta, oltre che alle mine ad incendio che ha demolito il tetto.

Non è per ora il caso di pensare ad un riattivamento, sia pure provvisorio delle macchine ma è invece indispensabile di provvedere alla copertura sia pure provvisoria della centrale il che porterà ad una spesa di lire 150.000 circa.

b) Cabine e trasformatori

Molteplici sono i trasformatori bruciati rovinati nella parte elettrica o meccanica - 3 cabine in muratura sono andate distrutte. L'apparecchiature di alta e bassa tensione di diverse cabine è pure andata distrutta e anche in questo settore, per provvedere a provvisori riattivamenti si prevede di dover spendere circa 120.000.

c) Linee di alta e bassa tensione

Nel campo delle linee di trasporto e distribuzione di energia molteplici sono i danni in parte riparati e in parte in via di riparazione.

In mancanza di materiali si è per ora sospeso il riattivamento di parte delle reti mancanti di materiale ma la spesa di mano d'opera pel riattivamento di quelle possibili ascenda già ora ad oltre 80.000 lire e si prevede ne occorrano altre 90.000 circa.

Non è possibile fare pel momento una analisi precisa dei danni ingenti subiti dall'Azienda in mancanza di elementi di costo dei materiali e macchinari. Riservandoci di fare una indagine più precisa in un secondo tempo riteniamo per ora indispensabile provvedere urgentemente a quanto sopra esposto onde essere in grado di riattivare il più presto possibile questo servizio basilare sia nell'interesse dell'autorità militare che civile.

Pertanto è necessario provvedere con tutta celerità all'Azienda la somma di L. 2.000.000 in quanto l'Azienda stessa non dispone di fondi e sarebbe costretta, ove non si provvedesse a quanto sopra, a sospendere ogni lavoro.

5919

./.

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

Azienda Elettrica Municipale
Macerata

Foglio n° 3
segue della lettera del 5/8/1944

Si nota inoltre che, a seguito del bom=
bardamento di Macerata del 3 aprile u.s. e conseguente
sfollamento e sospensione di quasi tutte le attività lo=
cali, l'Azienda registra ad oggi una perdita di esercizio
di oltre I.150.000.

AZIENDA ELETTRICA MUNICIPALIZZATA
Il Direttore

Approved
OFFICIAL:
Allied military Government
Capt P. Bonella
Civil Affairs

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

(SECRET)

Tel. 89081

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

LAJ/mc

ACC/158/PWU

7 Aug. 1944

Subject: Destruction of Electrical Plants.

To : V.P. Economic Section.

Attached hereto is a letter from Lt.Col. Lapper suggesting that, through some underground channels, certain engineers in Northern Italy be encouraged to bribe German Destruction Squads, a practice which we are advised had been successful in a number of instances in Central Italy, thereby preventing at least the destruction of some plants.

If such a plan were found feasible we would most certainly like to encourage it.

Will you please submit this to our military authorities to see if this can be done?

c.c. Lt.Col. Lapper

L.A. JENNY,
Lt.Colonel, C.E.,
Director.

5917

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

Tel.489081

SECRET

WML/cc

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

ACC/083/PWU

5 Aug 44

SUBJECT: Damage to electrical Plants.

TO : Lt-Colonel L.A. JENNY,
Director, P.W. & U. S-C.

1. We have been giving consideration to the development of schemes whereby the enemy may be induced to avoid the serious demolition of the Power Station plants.

2. Major Renton has an idea that, if some of the photographs showing the serious destructions which have already taken place were passed through to the people, it might urge them to greater effort. Eng. Errera suggests that bribery might be more successful.-

3. Eng. Errera's suggestion is that, since the Nera Montoro, Rieti, Aurelia and a few other plants in Region IV Area were, it is understood, saved by bribing the German demolition squads, that such a procedure may very well be followed up in Northern regions. He suggests, for instance, that the important companies in Northern Italy be made aware of the type of destruction which the Germans carried out to the plants in Central Italy and recommend to them that they might be able to avoid such a redestruction by the payment of certain premiums to demolition squads.

4. Eng. Errera states that the following persons are trustworthy and could be depended upon for trying out a scheme which we may suggest to them:

Eng. GAETANO MODE' - Soc.Bolognese Elettricità - Bologna,
Eng. ANTONIO ROSSI - Soc.Adriatica Elettricità - Venice,
Eng. PIERO FERRARIO- Edison Co. - Milan,
Eng. LUIGI SELMO - S.I.P. Co.- Turin,
Eng.FALCK - Falck Steel Co. - Milan,
Eng.FERNIANI or Eng. FRISACCO - Montecatini Co.- Milan.

5916

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

5. It is difficult to know whether any such scheme may help to prevent similar destruction to that we have seen in Central Italy. I feel it could not make it any worse and if it is possible that you get information through to these engineers I believe it is worth a trial.

W.M. LAPPER,
Lieut-Colonel,
Chief, Util. & Adm. Div.

5915

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

TO/

PUBLIC WORKS
SUB-COMMISSION ACC

Pub. Works v 42.
083 AL
0-2390
8308

HEADQUARTERS
ALLIED MILITARY GOVERNMENT
ROME REGION
A.P.O. 394
TCU DIV.

CRB/mp

2 August 1944

5A/TCU/1500/700

SUBJECT: Contract for reconstruction of damaged cities in Southern part of Region IV

TO : Regional Commissioner, Region IV

1. Because of battle action there are numerous cities in the southern part of Region IV which are in need of rehabilitation and rebuilding. These cities still have water system, sewer system and paving although these are damaged. There is also available the stone and rubble from the ruined structures.

2. In the vicinity of the city of Rome there are located the buildings planned to be the home of the 1942 exposition. A reconnaissance thru this group revealed a great amount of construction materials and equipment waiting to be put to use. Only directive energy, plans, money and labor are lacking.

3. It is suggested that the contractors for the Fair Grounds, or other receivers, be given the job of rebuilding the ruined areas in question using materials and equipment on hand. Lime mortar should be substituted for cement. In doing this a great public works program could be initiated. Materials and equipment now rotting could be put to work, many unemployed given something to do and the great devastated area restored to productivity.

GAM 5G

C.R. Birchett

C.R. BIRCHETT
Lt. Col. C.E.
Dir. TCU Div.

Lt Col Rhodes
Please route
thru file

Discussed this program with Brig Tighe
5/8/44
Per dupo

Copy to:

Public Wks. Sub Commission, ACC ✓

HEADQUARTERS
A.F.H.Q.
A.C.C.

5914

7.9

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

Director

I fear that I totally disagree with [illegible] material

GSR

[illegible] 5/8.
for 12-24 months.

HEADQUARTERS REGION II
Allied Control Commission
APO 394

083
ak

Read July 31

TO : HQ ACC

29 July 1944

SUBJECT : Devastated Areas

FILE No.: R4/830.14

1. The problems affecting the group of Communes in south east Frosinone, collectively known by us as "devastated areas", have already been the subject of some conferences.

2. As a result of our study of the general task of re-habilitation, we are of the opinion that the re-building and re-housing of the population, is too large to be undertaken by any local Frosinone enterprise, even with the special powers available to the Prefect, and through him, to the Commissario Speciale.

3. We are of the opinion that the only method for carrying out efficiently and rapidly the necessary re-housing problem, would be to employ one of the large Italian Housing Contractors who have their Head Offices in Rome. We can submit to you a list of such Contractors but, for reasons which shall appear shortly, it appears more likely that the initiating moves will have to be taken by the Italian Government. As you are aware, the province of Frosinone comes under Italian Government control on the 15th of August, and the building programme envisaged is a long term policy involving in all some 60 months of work. It seems to us, therefore, that the correct line of advance, is for us to call your attention to this problem, with the suggestion that you make a direct approach, on Ministerial level, to the Italian Government, urging them to commence operations forthwith.

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

File No.: R4/650.14

1. The problems affecting the group of Communes in south east Frosinone, collectively known by us as "devastated areas", have already been the subject of some conferences.

2. As a result of our study of the general task of re-habilitation, we are of the opinion that the re-building and re-housing of the population, is too large to be undertaken by any local Frosinone enterprise, even with the special powers available to the Prefect, and through him, to the Commissario Speciale.

3. We are of the opinion that the only method for carrying out efficiently and rapidly the necessary re-housing problem, would be to employ one of the large Italian Housing Contractors who have their Head Offices in Rome. We can submit to you a list of such Contractors but, for reasons which shall appear shortly, it appears more likely that the initiating moves will have to be taken by the Italian Government. As you are aware, the province of Frosinone comes under Italian Government control on the 15th of August, and the building programme envisaged is a long term policy involving in all some 60 months of work. It seems to us, therefore, that the correct line of advance, is for us to call your attention to this problem, with the suggestion that you make a direct approach, on Ministerial level, to the Italian Government, urging them to commence operations forthwith.

Regional Commissioner

5913

Rep'd to:-

Provincial Commissioner, Frosinone (2)
Rome Province
Region IV, Engineering Section
Rome Region

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

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

SECRET

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

24 Jun 44

DAMAGE TO PUBLIC UTILITIES BY RETREATING GERMANS

This memorandum treats with the Electric Power Utilities only.

"A" The enemy has made a practice of destroying utility services just before they retreat. They use the facilities until the last moment and then set off explosive charges which have been placed in position some time prior to retreating; in many cases several months in advance.

"B" On electric utilities the enemy has destroyed or seriously damaged all generating stations both hydro and steam. He did not, however, touch two steam plants within the City of Rome totalling about 40,000 H.P. These two plants now supply Rome but on a strictly rationed basis, and are the only source of supply for Rome at the present time.

High voltage substation transformers and equipment are also destroyed in most cases where they are adjacent to the power plants.

Some damage has been done to transmission lines mostly from shell fire during combat operations. There have been instances, however, where the enemy has removed copper wire conductors and taken the metal away. A considerable percentage of the transmission line conductors are aluminium cable which have not been cannibalised. The activities have been confined to copper.

"C" Estimated damage per cent:

	Utility	By Enemy	By Allied Operations
1.	Transport	-	-
2.	Communications	-	-
3.	Electric power	90	10
4.	Light	90	10
5.	Water	70	30
6.	Gas	50	50
7.	Sewerage	50	50
8.	Public Buildings	20	80
9.	Textile mills	20	80
10.	Farming machinery	-	-
11.	Fertilizer plants	-	-
12.	Livestock and seeds	-	-
13.	Mining facilities	-	-
14.	Food processing plants	-	-
15.	Storage facilities	-	-

SECRET

5912

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

"D" Destruction by the enemy has been very thorough and systematic and the explosive charges are placed by experts who are familiar with electric power plants and substations. The Allies have made it a practice, however, to uncover all destroyed plants and structures in order to salvage unbroken parts and pieces of equipment. In many instances it has been possible to construct useful apparatus from parts from different plants. Generally speaking, however, the large percentage of the equipment destroyed will take many months to rebuild, if at all. Some requires new generating plant machinery entirely, which cannot be replaced from local resources and will have to wait until after the war is over.

"E" With respect to electric utilities the equipment required will be substation transformers, oil circuit breakers and related equipment to control voltages of 150,000 volts and downwards.

Hydro generating stations will require complete hydro electric generating plants, switchboards, cables.

In the latter case the needs for each plant will have to be considered as a separate project, as the machinery must be designed to fit the conditions existing at the particular plant such as the head of water under which the plant will operate and the quantity of water available.

In order to make an accurate estimate of the situation it will require a careful study by a staff of competent engineers for a period of at least two to three months.

W.M. LAPPER,
Lieut-Colonel,
Chief, Utilities & Adm. Liv.

5911

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

SECRET

Information is desired on the procedures followed by the Germans who are driven back, in carrying out demolitions, particularly in regard to public utilities and other installations or material necessary to civilian life.

A. Are demolitions carried out in areas removed from the battle zone, and, if so, to what extent?

B. Does any pattern appear to be followed in the selection of types of installations and equipment to be destroyed and, if so, what types are concentrated on and what types are spared?

C. What is the best estimate that can be made of the percentage of destruction caused by enemy action and by our own operations, affecting the following:

> Transport, communications, electric power, light, water, gas, sewerage, public buildings, textile mills, farming machinery, fertilizer plants, livestock and seeds, mining facilities, food processing plants, storage facilities.

D. Does there appear to be a systematic attempt to carry out destruction in such a way that the possibility of restoration through cannibalization will be minimized?

E. In connection with organizing the rehabilitation of liberated territories, what estimates can be made of the types and relative quantities of equipment, supplies and parts which will be needed from outside sources for original emergency repairs?

Lt. R. G. K. Boyce
JICA - PBS Section
APO 400

53139

5910

SECRET
SECRET

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

HEADQUARTERS
ALLIED CONTROL COMMISSION
INFORMATION DIVISION

29 MAY

106
RCs

2003 /INFO 27A
29 May 1944

SUBJECT: Extract Civil Censorship Report

TO : Public Works & Utilities S.C.

1. The attached information was extracted from reports sent to the Information Division, A.C.C., by extract civil censorship Report.

JOHN V. HINKEL
Major, M.I.
Director,
Information Division

File
FAB
3915

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

6. BOLOGNA

Air Raid Damage

The marshalling yards WNW of the main station of BOLOGNA have been completely destroyed. The RIALZO workshop and warehouses were completely destroyed.

(Source: CSDIC, A.A.I. (East) SIM/AB/93, 9 May 1944)

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

HEADQUARTERS
MEDITERRANEAN ALLIED AIR FORCES
Public Relations Section

ADD STRATEGIC

May 18th, 1944.

PHOTOS SHOW GREAT DAMAGE AT HARBORS

PIOMBINO harbor - Concentration of bursts on target and hits among 12 boat in the harbor and on a 350 foot freight Many bursts are shown in the railroad yards and on the south choke point of the yards. A fire was started in the industrial area sou of the choke point.

SAN STEFANO - A large percentage of bombs in the target area. Harbor installations, rail and highway communications, loa ing facilities and several small boats in the harbor were hit. A concentration of hits is shown at the entrance and exits of two ra road tunnels and a third tunnel was hit.

PORTO FERRAJO - A concentration of bombs smothered the target area. More than 300 hits were scored within a 2000 foot radius. The steel works suffered at least 50 hits and appears to be destroyed. Rail sidings were hit and explosions took place in the blast furnace area. Hits were scored on the long jetty in the commercial harbor, on a conveyor to the steel works, on a pier and numerous quayside rail sidings. A 220 foot merchant vessel was hit and a number of small craft destroyed.

ORBETELLO - The causeway was hit several times and strik are shown on the center seaplane hangar ramp.

BIHAC - Bombing took place through a hole in the clouds and results were unobserved.

ANCONA - Hits on southwest end of locomotive and car sheds railroad yards and on pier.

- 30 -

5907

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

HEADQUARTERS
ALLIED CONTROL COMMISSION
INFORMATION DIVISION

19 MAY Hqs 063

2037 /INFO
20 May 1944

SUBJECT: Civitavecchia

TO : Transportation Sub-Commission
Public Works Sub-Commission
Shipping Sub-Commission

1. The attached information was extracted from reports sent to the Information Division, A.C.C., by G-2 (Advanced Intelligence) AFHQ:

"It is reported that the port of Civitavecchia is completely destroyed".

John V. Hinkel
JOHN V. HINKEL
Major, A.I.
Director,
Information Division

5906

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

9 May. 44

Lt. Col. Rhodes:

attached is letter of foreword on Pescara plant banking for Col. Adams. Major Sharp initiated on having this today.

Lt C Capt Waybill

Will share this & Lt. Col. Ayers 5905 Sun. Bank GER 10/5. returns.

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

HEADQUARTERS
ALLIED CONTROL COMMISSION
Public Works & Utilities Sub-Commission
APO 394

WEL/in

ACC/083/PWU

9 May 1944

Subject : Bombing of Pescara Hydro Plants.

To : V.P. Economic Section.

1. Based on the demolition work, done by the retreating enemy forces, to utility services, especially electrical facilities, up to date, it has been generally expected that such demolition will continue as the enemy retreats further northward.

2. Information was received last month that the four Pescara Hydro plants had been completely mined by the enemy with the apparent intention of setting off the charges at the last moment before leaving.

3. The same source of information stated that the plants were then being operated to full capacity and all the power was being transported over the high-tension lines toward the Terni Hydro plants north east of Rome.

4. In anticipation of lack of power for the areas north of the present combat lines this Sub-Commission has instituted a Decree on electric power rationing for south Italy, for the purpose of conserving electric energy for use in those areas.

5. Also listing of all power users of south Italy is now nearing completion for the purpose of setting up priority lists. This will permit screening off non-essential users of electricity on short notice in order to permit the transport of as much power as possible for the affected areas.

5904

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

6. It is gathered from the news release that the bombing was done on the dam and not the power house structures. If such is the case repairs can be more readily made than if the machinery ~~was~~ were destroyed.

7. Whether enemy will now leave the plants as they are or go ahead with the demolition it is impossible to say.

8. The Pescara plants are located on the east coast water shed of Italy.

for W.E. LAPPER
Lt.Colonel
Chief El. & Admin.Div.

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

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

GER/cob

19

ACC/135/PWU To Ltr 08

31 Mar. 44.

Subject: Report on ACC/AMG Economic Activities by F.E.A.
(Your reference HT/adv dated 26 Mar. 44.)

To : Executive Officer, Economic Section.

1. Regarding the requests contained in your above letter, sent with a copy of pages 68 - 96 of the Report by the Foreign Economic Administration (U.S. Government), I beg to submit the following:-

(a) Electricity, Southern Italy.

(b) Water Supplies (Naples).

(c) Gas supplies.

(d) General - and reference to Monthly Reports Nov. 43 to Feb. 44; and to lists of plant, equipment, transport etc. (twelve months to March 1945) recently submitted to Economic Section.

L.A. JENNY,
Lt.-Col., C.E.,
Director.

Capt. Gracey
1. Sec X re Letter 2/3.
I have passed
it (carbon) for
Mr. Tolmach (ACA)
2. Sheet 1 was
originally on
one copy;
I made it
Sheet 1 for
each (carbon) copy
(there are 7)
I retained
Sheet 1
in numbering
(numbering 1 of 7)
where it is
missing

5902

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

Foggia - Bari, 150 KV line - Has been repaired and is operating.

Sila - Ferroleto, 150 KV line - Has been repaired and is operating.

60 KV line in Sila Region to Cosenza - has been repaired and is operating.

Tusciano - Torre - Frattamaggiore line - Repaired and in service.

Tusciano - Calore - Benevento - 60 KV line - Will be rebuilt by Peninsular Base Section Engineers.

Tanagro - Tusciano - Torre - 30 KV line - Repaired and in service.

Frattamaggiore - Caprano - 60 KV line - Rebuilt as close to the battle line as possible.

Matese - Pescara - 88 KV line - Unrepaired.

Frattamaggiore - Pescara - 150 KV lines - One line repaired to Santa Maria. Some material in Frattamaggiore - Pescara line will be cannibalized for other lines.

Foggia - Pescara - 150 KV line - Line unrepaired.

Frattamaggiore - Matese Line - Line repaired and in use.

Matese - Benevento - Line - Repairs now under way by Peninsular Base Section Engineers.

Benevento - Campobasso - Line - Line repaired.

(f) The service to the City (Naples) is still subject to very frequent interruptions, ranging from a few minutes to several hours, due to a combination of the above factors.

2. NOTES ON WATER SUPPLIES.

(Reference pages 75 - 77.)

By the end of March water supply conditions in Naples, and the surrounding districts approximated to normal, so far as domestic supplies were concerned.

Additional damaged mains and other defects continue to be found, resulting in cessation of supplies to certain areas of the City from time to time. In the several square miles of industrial areas, which are completely wrecked, there remains a large programme of repair work to be done, including mains, control equipment, valves etc.

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

3. GAS SUPPLIES. (Pages 71 - 74.)

(a) Naples.

War Damage. Owing to the successive damage by enemy action of the Gas Plant and the District gas mains and services, the amount of gas produced was not only reduced, by stages, but at the same time the gas lost in distribution, (normally a high figure in view of the peculiar terrain of the district) was increased abnormally.

In pre-war years the unaccounted for gas was more or less a constant quantity and therefore a low consumption of gas gives a high percentage of loss and vice versa.

The estimated figure of 30% for 1944 is based on a combination of this fac or and the anticipated loss due to War Damage to the distribution system which, at this time, is an unknown factor in the areas where gas is not being served.

Stoppage of Production. On 26 Sep. 43, gas production ceased, following the systematic general destruction of the plant by enemy mines on that day.

Restart of Production and Present Phase. After the withdrawal of the enemy, a strong effort was made to rehabilitate such portions of the plant as could be rebuilt for the production of gas, regardless of the recovery of by-products. On 9 Dec. a portion of the plant was put in operation but was abandoned after seven days on account of damage and danger due to explosion of gas from excessive leakage in distributing mains.

Regular production of gas commenced on 16 Jan. 44, since which time it has been in continuous operation on a limited scale.

Estimated Production. Present actual average total production (Integral Plant) equals 50,000 m^3 gas per day at 3,200 calories.

This figure represents not only the normal average working output of the Integral Plant, but is the maximum that the present limited available gas holder storage capacity will permit, to accommodate the balance between production and consumption.

2nd. Phase, April, 1944. It is anticipated that a portion of the vertical retort battery (S.D. Plant) with necessary auxiliary plant, will be in operation at the end of April, 1944, producing an additional 35,000 m^3 at 4,200 calories daily. There is a sub-normal coke output because extra coke is required for steam raising, as waste heat boilers which are normal to this plant are not available.

Estimated Possible Total Production. It is estimated that by November 1944 approximately 90,000 cubic metres will be produced and after December 1944, 120,000 cubic metres. That is considered to be the maximum capacity of that portion of the plant which can be rehabilitated.

590

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

Remarks. The above three phases in production are based on the assumption that the necessary work of reconstruction will be accomplished entirely from materials and plant now available in liberated Italy, and it will be appreciated that only the barest possible amount of reconstruction of plant, sufficient for production of gas, without any refinements or economies in operation or recovery of by-products, as to be expected.

(b) Other Installations.

The works at Messina and Catania were wrecked, by bombing and mines, beyond all hope of repair.

Other works in S. Italy and Sicily suffered minor damage only, but cannot operate owing to coal shortages. There are five in Sicily and twelve in S. Italy (excluding Rome) and a few other very small ones.

4. GENERAL.

A considerable amount of additional information bearing on roads, the very large number of bridges wrecked in S. Italy, buildings, waterworks, gas and electricity installations, and public works generally will be found in the monthly reports of this Sub-Commission for Nov. and Dec. 1943, and Jan. and Feb. 1944. As to gas supplies, much new plant and machinery is required and similarly as to electricity. An outline of these possible requirements, from April 1944 to March 1945, was recently submitted to Economic Section, with gross and monthly tonnages, including coal supplies. Transport and other requirements were also indicated, without which the 4,000 kilometres of road repairs and bridge reconstruction cannot be undertaken; in January 1944, this Sub-Commission took over responsibility for those, from the Armies.

5899

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

Director's.
This is now ready.
MT/cdv
FEA.
31/3.

HEADQUARTERS
ALLIED CONTROL COMMISSION
ECONOMIC SECTION
APO 394

26 March 1944.

SUBJECT: Report on A.C.C./A.M.G. Economic Activities by F.E.A.

TO : Col. Evans
Col. Foley
Col. Legg
Lt. Col. Jenny
Major Hartman

1. A Survey Mission was sent to liberated Italy in the early part of this year by the Foreign Economic Administration of the U.S. Government for the purpose of exploring the nature and extent of the civilian economic needs of Italy.

2. This Mission submitted a report, dated February 5, 1944, on its findings and containing its recommendations on the economic activities of the A.M.G. and A.C.C. in liberated Italy.

3. A careful examination of the findings and recommendations of this report should prove exceedingly helpful to each of interested sub-commissions of the Economic Section of the A.C.C.

4. The relevant parts of the report are hereby being sent to each interested sub-commission (it is not possible to circulate the entire report):

Agricultural Sub-Commission, pp. 41-54, Part VII, entitled:
Italian Agriculture;

Finance Sub-Commission, pp. 21-31, Part IV, entitled:
Price Trends and Inflation;

Food Sub-Commission, pp.5-18, Parts III and IV, entitled:
Civilian Supply Operations and Present Condition of the Italian System of Distribution;

Industry and Commerce Sub-Commission, pp. 18-20, 36-40, 55-122, entitled: Distribution of Industrial and Agricultural Supplies, Import and Export Operations of Military Government, and Italian Industry;

Public Works and Utilities Sub-Commission, pp.68-96, entitled: Telephone System and Public Utilities.

5898

5. Each interested sub-commission should examine the relevent part of

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

the report and should submit to my office by Friday evening, March 31st, a statement containing their comments on the report.

6. The statement should be drawn up as follows:

a. Comments on the facts and figures presented in the report, and the extent to which, if any, they diverge from the situation as it was at the time of the mission's visit (late December, 1943 - Early January 1944), and as it is now.

b. Significant oversights and omissions regarding the economic activities covered by relevant part of the report; a significant omission, for example, is lack of reference to the activities of what is now the Mining Division.

c. Observations on Recommendations and Suggestions, pointing out particularly:

(1) Those which are already in effect (with details);

(2) Those which have been considered, but which it has not been possible to implement, indicating whether the reason was lack of essential imported supplies or absence of personnel.

7. Where facts and figures and/or comments on recommendations are already available in a completed report, e.g. Report on Chemical Fertilizer Production, specific reference should be made to relevant parts of such reports and copy of report attached.

8. The F.E.A. document is strictly confidential in nature and the parts distributed should be treated as such.

9. Any queries relating to this request should be addressed to Mr. Tirone.

D. S. ADAMS,
Colonel, C.E.,
Executive Officer,
Economic Section.

5897

NOTES CONCERNING ELECTRICITY SUPPLY

1. (a) Areas under review- Sicily and Southern Italy

(b) Estimated normal civil population-

Sicily- 4,250,000
Southern Italy- 10,000,000

2. Number and total capacity of hydro and thermal generating stations covered by report

Number	Hydro Capacity	Thermal Capacity
	S I C I L Y	
8	51,500 kva	
5		53,648 kva
	I T A L Y	
46	543,084 kva	
3		57,400 kva

3. Abnormal demands for electricity in the area? Not at the moment.

4. Percentage of existing stations existing or intact

TYPE OF PLANT	PERCENT INTACT	PERCENT OUT OF ACTION DUE TO BOMBING OR DIR. ENT ENEMY ACTION	PERCENT OUT OF ACTION DUE TO DIRECT DEMOLITION
	S I C I L Y		
Hydraulic	100	0	0
Thermal	48	52	0
	I T A L Y		
Hydraulic	66.7 *	0.1	31.6
Thermal	0	14.8	85.2

* The high percentage of intact hydraul[illegible]

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

I T A L Y

46 343,084 kva

57,400 kva

3

5. Abnormal demands for electricity in the area? Not at the moment.

4. Percentage of existing stations existing or intact

TYPE OF PLANT	PERCENT INTACT	PERCENT OUT OF ACTION DUE TO BOMBING OR DIRECT ENEMY ACTION	PERCENT OUT OF ACTION DUE TO DIRECT DEMOLITION
	SICILY		
Hydraulic	100	0	0
Thermal	48	52	0
	ITALY		
Hydraulic	~~66.7~~ *	0.1	~~31.9~~ 31.6
Thermal	0	14.8	85.2

* The high percentage of intact hydraulic capacity in Italy results from the fact that the Sila development, the largest in Southern Italy, was left undamaged by the Germans. Except in the area near the Sila plant, nearly every other plant has been damaged, however. Had the Sila development suffered the same degree as other large generating stations, Italy would be in a very serious situation at the moment.

Full Electric Power Italy

5896

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

DAMAGE TO TRANSMISSION SYSTEMS

South of Naples, damage to transmission systems was confined to the lines, and was caused by shell fire. Just outside of Naples, the enemy demolished the large Frattamaggiore switching station which served as a tie between high voltage lines running northwest, north, south, and the city of Naples. The demolition included the outside equipment, towers and transformers, and the building housing the control equipment and the 60kv switchgear. It is difficult to describe what the site looks like but the time-worn phrase that the building is "just a pile of rubble" is correct in this instance.

As the enemy moved north, he began to destroy high tension steel transmission towers by placing explosive charges near the base of each tower leg. At first, he made no effort to reclaim the conductors, but later information states that such is now being done. Transformers in switching and substations have been damaged by methods similar to those used in the generating stations. As far as is known, the enemy has not made any effort to damage insulators or underground cable. Insulators, and conductors have been damaged by shell fire.

No instances are known where the low voltage distribution systems have been damaged.

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

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

DELIBERATE DAMAGE TO
HYDROELECTRIC STATIONS.

Station	Capacity Affected-Kva	Nature of Damage.
Bagnoli	200	Dam broken
Bivaro	700	1.350 Kva generator badly damaged. 1-Turbine driving other 350 KVA generator badly damaged. Switch gear and transformer badly damaged by debris.
Calore	23000	2-11,500 KVA units badly damaged. Generation voltage 10 KV. Bearings destroyed by explosive charges. Shaft exciter casings demolished. Regulator of one turbine destroyed by explosives. Turbine room crane rail displaced by blasts; since repaired. Shut-off valves before turbine broken by charges. Speed ring of one turbine cracked. Pipe line broken in several places. One 10/60 KV transformer burned, and appears unrepairable. Other transformer has damaged reservoir and radiators, and appears repairable. Two circuit breaxers destroyed by explosives. Building badly damaged.
Capo Vulturno	28,000 KVA	Station completely demolished.
Carlucci	550	1- 550 KVA, 3150 volt generator damaged by axe and hand grenades. Appeared half hearted job.

		Switch gear and transformer badly damaged by debris.
Calore	23000	2-11,500 KVA units badly damaged. Generation voltage 10 KV. Bearings destroyed by explosive charges. Shaft exciter casings demolished. Regulator of one turbine destroyed by explosives. Turbine room crane rail displaced by blasts; since repaired. Shut-off valves before turbine broken by charges. Speed ring of one turbine cracked. Pipe line broken in several places. One 10/60 KV transformer burned, and appears unrepairable. Other transformer has damaged reservoir and radiators, and appears repairable. Two circuit breaxers destroyed by explosives. Building badly damaged.
Capo Vulturno	28,000 KVA	Station completely demolished.
Carlucci	550	1- 550 KVA, 3150 volt generator damaged by axe and hand grenades. Appeared half hearted Job. Damaged windings.
Covatta		2 alternators-in small installatic damaged by hand grenades.
Celenza	1.25	1 turbine-generator unit completely demolished. 220 volts. 220/6000 volt transformer demolished. Canal and dam destroyed.
De Angelis	120	Station and 2-60 KVA alternators demolished. (500 volts).
De Cosmo	280	1-280 KVA, 400 volt alternator destroyed by hand grenades.

5894

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

Station	Capacity affected-KVA	Nature of Damage
De Vengenzi Cosmo	60	1-60 KVA alternator, 3000 volt, with broken bearing and pulley. Turbine cover damaged.
Guacci	250	2-125 KVA alternators- Plant completely destroyed.
Ischia	250	Believed similar to Guacci. Completely destroyed.
Lete	9250	Station completely destryed.
Matese I	14.000	2 Pelton wheel Units at 7000 KVA ca. One turbine cover and winding of second alternator broken by one charge. One unit already repaired and operating. Generating voltage 10 KV.
Matese II	10.000	2 Pelton wheel Units at 5.000 KVA each, and at voltage of 10 KV. Building demolished. Charges appearently placed under the turbines and inside the alternators, destroying them. 2- 12,000 KVA 10/60 KV transformers damaged, extent unknown. 2- 15,000 KVA 60/80 KV transformers badly damaged, appearently by Limpet charges. 3- 60 KV outdoor oil immersed circuit breakers damaged. 2- 80 KV outdoor oil immersed circuit breakers damaged.
Quirino	40	Station completely destryed.
Ponte Ventre	200	1 alternator, approx 200 KVA

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

Lete	9250	Station completely destryed.
Matese I	14.000	2 Pelton wheel Units at 7000 KVA ca. One turbine cover and winding of second alternator broken by one charge. One unit already repaired and operating. Generating voltage 10 KV.
Matese II	10.000	2 Pelton wheel Units at 5.000 KVA each, and at voltage of 10 KV. Building demolished. Charges appearently placed under the turbines and inside the alternators, destroying them. 2- 12,000 KVA 10/60 KV transformers damaged, extent unknown. 2- 15,000 KVA 60/80 KV transformers badly damaged, appearently by Limpet charges. 3- 60 KV outdoor oil immersed circuit breakers damaged. 2- 80 KV outdoor oil immersed circuit breakers damaged.
Quirino	40	Station completely destryed.
Ponte Venafro	200	1 alternator, approx 200 KVA disintegrated. A second unit has been destroyed. No information as to capacity.
n Massimo	6250	1-Pelton wheel unit rated at 4500 KVA, 3000 volts, and one rated at 1750 KVA. Both destroyed by gelignite charges. Control room demolished. Broken bushings on one circuit breaker. 5893
Sciarra I	1290	1-370 KVA unit at 3000 volts. Turbine, governor and alternator wrecked.

1-Sicto

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

Station	Capacity Affected-KVA	Nature of Damage
		1- ditto, with broken intake on turbine. Alternator windings burned at one end 1- 550 KVA unit at 3000 volts. Turbine and alternator demolished.
Sciarra II	414	Building, Control board and feed pipe entirely demolished. Turbines damaged from flying fragments.
Trevento	65	Dam broken.
Tusciano	11.600	Pipe lines and valves damaged by explosives charges.
Ventittelli	1,670	1- 1120 KVA unit demolished from charge under outer bearing. Turbine disintegrated. Alternator windings burned. 1- 550 KVA unit. Alternator casing cracked. Not serious. 1- 550 KVA transformer-casing destroyed from charge placed under it.
Capuana	48,900 KVA	Control room demolished. Admission valves on 2-16,300 KVA units badly damaged by charges. Water box ends on all three units destroyed by charges. One boiler blown from its columns and fell part way through floor.* Charges in another boiler damaged Furnace walls. Switchgear badly damaged during demolition of control room. Charges placed in alternators but did not go off.

15

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

		fragments.
Trevento	65	Dam broken.
Tusciano	11.600	Pipe lines and valves damaged by explosives charges.
Ventittelli	1,670	1- 1120 KVA unit demolished from charge under outer bearing. Turbine disintegrated. Alternator windings burned. 1- 550 KVA unit. Alternator casing cracked. Not serious. 1- 550 KVA transformer-casing destroyed from charge placed under it.
Capuana	48,900 KVA	Control room demolished. Admission valves on 2-16,300 KVA units badly damaged by charges. Water box ends on all three units destroyed by charges. One boiler blown from its col-umns and fell part way through floor.* Charges in another boiler damaged Furnace walls. Switchgear badly damaged during demolition of control room. Charges placed in alternators but did not go off. Station partially repaired, and one generating unit is in operable condition.

* Charges had been placed in all six boilers. In some instances, they had failed to go off. The result was that only two boilers were damaged.

5892

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

WATER SUPPLY

This questionnaire is intended to cover only districts receiving piped supplies of water excepting question 2 which is intended to relate to all wells. Percentages should be based on the population served or output of the undertakings in gallons per day.

1. (a) Area and/or townships covered by report. Naples, Pozzuoli, Torre Annunziata
   (b) Approximate population of area. 1250000 - 55000 97.000
   (c) Approximate normal output of area. Circa American = 377365

2. Percentage of public water supply systems destroyed or remaining intact:-

Intact	Out of action due to bombing and/or bombardment	Out of action due to deliberate damage
/ %	%	%

3. (a) Were wells or reservoirs fouled or poisoned. No

   Yes/No.

   (b) If so, on what scale

   %

   (c) What means of fouling were used.

4. (a) Were wells or bore holes wrecked. X

   Yes/No.

   (b) If so, how.

5. (a) Was damage done to ~~dams or~~ reservoirs. Yes, Only Reservoir Capodimonte ns. - pipe gallery.

   Yes/No.

   (b) If so, how was damage done and did it affect:-
   (i) Fabric of dams or reservoirs. Pumping Plant damaged - yes
   (ii) Valve towers
   (iii) Valves or sluices. - yes. pipes mined under roadways. 36 gals of Tyrenite was removed

6. (a) Were aqueducts or pipe lines damaged. - by mines & by bombs.

   Yes/No.

   (b) If so, how. By explosive by blowing main Central works and valves.

7. Was damage done and if so how to:-

   (a) ~~Prime movers.~~ Explosive pumps or mains burned
   (b) Pumps Openings - mined by Germans, partially destroyed

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

2. Percentage of public water supply systems destroyed or remaining intact:-

Intact	Out of action due to bombing and/or bombardment	Out of action due to deliberate damage
%	%	%

3. (a) Were wells or reservoirs fouled or poisoned. No

Yes/No.

(b) If so, on what scale

%

(c) What means of fouling were used.

4. (a) Were wells or bore holes wrecked. X

Yes/No.

(b) If so, how.

5. (a) Was damage done to ~~dams or~~ reservoirs. Yes, Only Reservoir Orgadomte no. - pipe gallery

Yes/No.

(b) If so, how was damage done and did it affect:-
(i) Fabric of dams or reservoirs.
(ii) Valve towers Pumping Plant damaged - yes
(iii) Valves or sluices. - yes. pipes mined under raisins 36 pcs of Gyrmite were removed

6. (a) Were aqueducts or pipe lines damaged. - by mines & by bombs.

Yes/No.

(b) If so, how. By explosives by bursting main Control works and valves.

7. Was damage done and if so how to:-

(a) Prime movers.
(b) Pumps Explosive pumps mains burned
(c) ~~Filters~~
(d) ~~Sterilizing equipment~~
(e) Pipe-work or valves. Explosive

Springs - mined by Germans partially destroyed

8. Were water distribution systems damaged. not by mining but bombing damaged several thousand.

Yes/No.

(a) Pipe lines
(b) Valves, cocks and control gear. Yes yes

5891

9. Did Allied forces requisition, remove or damage civilian water supply plant or equipment. Allies took some pipe materials.

Yes/No.

10. Were local repair materials available sufficient for first aid repair and restoration of emergency water supplies.

Yes mainly + yes.

/11.

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

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

WATER SUPPLY

1. (a) Townships covered by report: Naples, Pozzuoli, Torre Annunziata
(a)Approximate population of area: 1250.000 55.000 97.000
Circumvesuviana
377.365.

2. Percentage of public water supply systems destroyed or remaining intact:

Undeterminable.

3.(a) Were wells or reservoirs fouled or poisoned ?

No.

4.(a) Were wells or bore holes wrecked ?

No wells or bore holes in main supply.

5.(a) Was damage done to dams or reservoirs ?
(a) Main reservoir - yes.
(b) (I) Reservoir pipe gallery was mined and damaged.
(II)Valves were mined and damaged.

6.(a) Were acquaducts or pipe lines damaged ?
(a) Yes.
(b) By mines at main control works and valves.

7. Was damage done and if so how to: Pumps, pipe work and other parts ?
(b) Pumps-By mines.
(c) Pipe work and valves - By mines.

8.Were water distribution systems damaged ?
Yes.
(a) Pipe lines - By bombs only in 2000 or more points.
(b) Valves - " " "

9. Did Allied forces requisition, remove or damage civilian water supply plant or equipment ?

Allies took some pipe materials.

No.

4.(a) Were wells or bore holes wrecked ?

No wells or bore holes in main supply.

5.(a) Was damage done to dams or reservoirs ?

(a) Main reservoir - yes.

(b) (I) Reservoir pipe gallery was mined and damaged.

(II) Valves were mined and damaged.

6.(a) Were acquaducts or pipe lines damaged ?

(a) Yes.

(b) By mines as main control works and valves.

7. Was damage done and if so how to: Pumps, pipe work and other parts ?

(b) Pumps-By mines.

(c) Pipe work and valves - By mines.

8. Were water distribution systems damaged ?

Yes.

(a) Pipe lines - By bombs only in 2000 or more points.

(b) Valves - " " "

9. Did Allied forces requisition, remove or damage civilian water supply plant or equipment ?

Allies took some pipe materials.

10. Were local repair material available sufficient for first aid repair and restoration of emergency water supplies ?

Yes.

11. Was it found possible to collect water engineers and skilled labour to undertake necessary repairs or had such labour been evacuated by the enemy ?

Yes. Labour had not been evecuated.

5890

12. Any other useful information on water supply matters.

Distribution system was out of service for 15 days.

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

WATER SUPPLY

This questionnaire is intended to cover only districts receiving piped supplies of water excepting question 2 which is intended to relate to all wells. Percentages should be based on the population served or output of the undertakings in gallons per day.

1. (a) Area and/or townships covered by report. Naples, Pompeii, Torre Annunziata
   (b) Approximate population of area. 1250000 - 55000 - 97000
   (c) Approximate normal output of area. Gallons/annum 37736.5

2. Percentage of public water supply systems destroyed or remaining intact:-

Intact	Out of action due to bombing and/or bombardment	Out of action due to deliberate damage
%	%	%

3. (a) Were wells or reservoirs fouled or poisoned. No

   Yes/No.

   (b) If so, on what scale

   %

   (c) What means of fouling were used.

4. (a) Were wells or bore holes wrecked. X

   Yes/No.

   (b) If so, how.

5. (a) Was damage done to ~~dam~~ reservoirs. Yes, Only Repairs

   Yes/No.

   (b) If so, how was damage done and did it affect:-
   (i) Fabric of dams or reservoirs. ~~Tank~~ Cisterns no. - pipe gallery Pumping Plant damaged - yes
   (ii) Valve towers
   (iii) Valves or sluices. - yes ~~pipe~~ Mined and underminded 36 cwts of Tyrants was removed

6. (a) Were aqueducts or pipe lines damaged. - by mines & by bombs.

   Yes/No.

   (b) If so, how. By collapse by bursting, main Control works and valves.

7. Was damage done and if so how to:-

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

2. Percentage of public water supply systems destroyed or remaining intact:-

Intact	Out of action due to bombing and/or bombardment	Out of action due to deliberate damage
~~%~~	%	%

3. (a) Were wells or reservoirs fouled or poisoned. no

~~Yes~~/No.

(b) If so, on what scale

%

(c) What means of fouling were used.

4. (a) Were wells or bore holes wrecked. X

~~Yes~~/No.

(b) If so, how.

5. (a) Was damage done to ~~dams or~~ reservoirs. yes, Only Reservoir ~~Tank~~ Cupalomite no. - pile gutted,

~~Yes~~/No.

(b) If so, how was damage done and did it affect:-
(i) Fabric of dams or reservoirs. ← Pumping Plant damaged - yes
(ii) Valve towers
(iii) Valves or sluices. - yes. ~~Pipes~~ mined under machines 36 pkts of Dynamite was rammed

6. (a) Were aqueducts or pipe lines damaged. - by mines & by bombs.

~~Yes~~/No.

(b) If so, how. By explosion by burning, main control works and valves.

7. Was damage done and if so how to:-

(a) Prime movers. Explosion pumps + mains burned Pumps - Mined by Germans partially destroyed
(b) Pumps
(c) Filters
(d) ~~Sterilising equipment~~
(e) Pipe-work or valves. Explosion

8. Were water distribution systems damaged. Not by mining but bombing damaged several thousand.

~~Yes~~/No.

(a) Pipe lines
(b) Valves, cocks and control gear. Yes yes

5891

9. Did Allied forces requisition, remove or damage civilian water supply plant or equipment. Allies took some pipe materials.

~~Yes~~/No.

10. Were local repair materials available sufficient for first aid repair and restoration of emergency water supplies.

Yes mainly yes.

/11.

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

11. Was it found possible to collect local water engineers and skilled labour to undertake necessary repairs or had such labour been evacuated by the enemy. Any special reports yes.

12. Any other useful information on water supply matters.

City was out of water - sewer,
but a little system was out of use 15 days.

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

WATER SUPPLY

1. (a) Townships covered by report: Naples, Pozzuoli, Torre Annunziata
(a)Approximate population of area: 1250.000 55.000 97.000
Circumvesuviana
377.365.

2. Percentage of public water supply systems destroyed or remaining intect:

Undeterminable.

3.(a) Were wells or reservoirs fouled or poisoned ?

No.

4.(a) Were wells or bore holes wrecked ?

No wells or bore holes in main supply.

5.(a) Was damage done to dams or reservoirs ?
(a) Main reservoir - yes.
(b) (I) Reservoir pipe gallery was mined and damaged.
(II)Valves were mined and damaged.

6.(a) Were acquaducts or pipe lines damaged ?
(a) Yes.
(b) By mines at main control works and valves.

7. Was damage done and if so how to: Pumps, pipe work and other parts ?
(b) Pumps-By mines.
(c) Pipe work and valves - By mines.

8. Were water distribution systems damaged ?
Yes.
(a) Pipe lines - By bombs only in 2000 or more points.
(b) Valves - " " "

9. Did Allied forces requisition, remove or damage civilian water supply plant or equipment ?

Allies took some pipe materials.

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

3.(a) Were wells or reservoirs fouled or poisoned ?

No.

4.(a) Were wells or bore holes wrecked ?

No wells or bore holes in main supply.

5.(a) Was damage done to dams or reservoirs ?
(a) Main reservoir - yes.
(b) (I) Reservoir pipe gallery was mined and damaged.
(II) Valves were mined and damaged.

6.(a) Were acquaducts or pipe lines damaged ?
(a) Yes.
(b) By mines a$ main control works and valves.

7. Was damage done and if so how to: Pumps, pipe work and other parts ?
(b) Pumps-By mines.
(c) Pipe work and valves - By mines.

8. Were water distribution systems damaged ?
Yes.
(a) Pipe lines - By bombs only in 2000 or more points.
(b) Valves - " " "

9. Did Allied forces requisition, remove or damage civilian water supply plant or equipment ?

Allies took some pipe materials.

10. Were local repair material available sufficient for first aid repair and restoration of emergency water supplies ?

Yes.

11. Was it found possible to collect water engineers and skilled labour to undertake necessary repairs or had such labour been evacuated by the enemy ?

Yes. Labour had not been evecuated.

5890

12. Any other useful information on water supply matters.

Distribution system was out of service for 15 days.

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

ROADS AND ROAD BRIDGES

1. (a) Area and townships reported on
   (b) Normal civilian population.

2. Was demolition of roads and bridges done in depth along main road arteries, or was it done in belts to assist holding tactical lines.

3. Was blocking of roads by debris in towns and villages a serious problem or were such blocks easily cleared with local labour.

4. Were bridge demolitions carried out fully effective, or is repair possible in a percentage of cases. Estimate of percentage.

5. Were road making machines and plant, e.g. graders, scrapers, excavators, rollers, tar boilers, concrete mixers etc. left undamaged, or were they destroyed or removed.

6. Were quarrying and stone crushing plant left undamaged.

7. Was sufficient labour forthcoming locally for essential road repairs.

8. Were stocks of material for repair of roads and bridges found available locally.

8. Any other useful information on roads and road bridges.

12

mean

2/ Usually in depth as retirement was rapid, but this may not apply in present fighting

3/ Easily cleared.

4/ Most destroyed bridges are earth filled masonry arches. In many cases the abutments were not destroyed but these crumble easily. Steel bridges, mostly on Rlys were invariably cut but abutments frequently left intact.

5/ [illegible]

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

5. Were road making machines and plant, e.g. graders, scrapers, excavators, rollers, tar boilers, concrete mixers etc. left undamaged, or were they destroyed or removed.

6. Were quarrying and stone crushing plant left undamaged.

7. Was sufficient labour forthcoming locally for essential road repairs.

8. Were stocks of material for repair of roads and bridges found available locally.

8. Any other useful information on roads and road bridges.

mainly

2/ Mostly in depth as retirement was rapid, but this may not apply in present fighting.

3/ Easily cleared.

4/ Most destroyed bridges are earth filled masonry arches. In many cases the abutments were not destroyed but these crumble easily. Steel bridges, mostly on Rlys were invariably cut but abutments frequently left intact.

5/ Some stolen but I have only heard of one steam roller which was wilfully damaged.

6/ Generally, yes.

7/ Yes, with inducements, i.e. food except in Army Zones.

8/ Yes, except steel spans & emulsion.

9/ In the main, Italian roads have stood up remarkably well under temperate pounding. Excellent bases & lack of frost are chief reasons. Some roads near present fronts are becoming worn out after winters traffic.

5889

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

ROADS AND ROAD BRIDGES

1. (a) Area and townships reported on: Naples & South Italy.
   (b) Normal civilian population -

2. Was demolition of roads and bridges done in depth along main road arteries, or was it done in bolts to assist holding tactical lines ?
   Mostly in depth as retirement was rapid but this may not apply in present fighting.

3. Was blocking of roads, debris in towns and villages a serious problem or were such blocks easily cleared with local labour ?
   Easily cleared.

4. Were bridge demolitions carried out fully effective, or is repair possible in a percentage of cases ?
   Estimate of percentage: Most destroyed bridges are earth filled masonery arches. In many cases the abutments were not destroyed but these crumble easily. Steel bridges, mostly on railways were invariably cut but abutments frequently left intact.

5. Were road making machines and plant, e.g. graders, scrapers, excavators, rollers, tar boilers, concrete mixers etc. left undamaged, or were they destroyed or removed ?
   Some stolen but only heard of one steam roller which was wilfully damaged.

6. Were quarrying and stone crushing plant left undamaged ?
   Generally, yes.

7. Was sufficient labour forthcoming locally for essential road repairs ?
   Yes, with inducements, i.e. food except in Army Zones.

8. Were stocks of material for repair of roads and bridges found available locally ?
   Yes, except steel spans and asphaltic emulsion.

9. Any other useful information on roads and road bridges:
   In the main, Italian roads have stood up remarkably well under terrific pounding. Excellent bases and lack of frost are chief reasons. Some roads near present fronts are becoming worn out after winter traffic.

ADDITIONAL REMARKS

2. Usually only large bridges were destroyed or bridges over streams which were not easily by-passed. This was observation

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

repair possible in a percentage of cases ?

Estimate of percentage: Most destroyed bridges are earth filled masonery arches. In many cases the abutments were not destroyed but these crumble easily. Steel bridges, mostly on railways were invariablycut but abutments frequently left intact.

5. Were road making machines and plant, e.g. graders, scrapers, excavators, rollers, tar boilers, concrete mixers etc. left undamaged, or were they destroyed or removed ?

Some stolen but only heard of one steam roller which was wilfully damaged.

6. Were quarrying and stone crushing plant left undamaged ?

Generally, yes.

7. Was sufficient labour forthcoming locally for essential road repairs ?

Yes, with inducements, i.e. food except in Army Zones.

8. Were stocks of material for repair of roads and bridges found available locally ?

Yes, except steel spans and asphaltic emulsion.

9. Any other useful information on roads and road bridges:

In the main, Italian roads have stood up remarkably well under terrific pounding. Excellent bases and lack of frost are chief reasons. Some roads near present fronts are becoming worn out after winter traffic.

ADDITIONAL REMARKS

2. Usually only large bridges were destroyed or bridges over streams which were not easily by-passed. This was observation from Agropoli to Naples. In some isolated spots bridges were blown out which had no tactical excuse.

3. Road blocks were not serious-pratically no delay. Street cars were used south of Naples; concrete blocks, and some demolition of buildings, and craters.

Most serious block was in South Salerno at Pasta factory caused by demolition and bombardment and in Via Chiaia in Naples mostly caused by aerial bombardment. All cleared by bulldozers and shovels.

5888

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

10

BUILDINGS

1. (a) Area of townships reported on. Naples
   (b) Normal civilian population. 900,000

2. What percentage of dwelling houses in towns was found to be:-

   (a) suitable for continued use 80%
   (b) repairable.
   (c) totally destroyed or unrepairable. 20%

3. What are the predominant building materials used in the area (e.g. wood, brick, stone, pise). Stone.

4. Were stocks of the following materials found available undamaged in adequate quantities to start repair work:-

   Cement or lime. None
   Aggregate. None Known
   Sand. Yes
   Stone. Yes
   Bricks. Yes
   Timber. None
   Steel or corregated iron. None. Very little damage.
   Wall or plaster board. None
   Roofing felt, tiles etc. None
   Glass or substitute. None, Probably hidden

5. Were supplies of builders tools and plant (e.g. scaffolding ladders, concrete mixers) left undamaged. Yes

6. Was sufficient skilled supervision, and skilled and unskilled labour for repairs to buildings found available locally. Yes

7. Any further useful information regarding buildings.

Aside from bombing, principally in Port area, Santa Lucia area (Hotel) P.O. Bldg. - Volturno Bldg. and others were mined.
The 23 March Hosp. (Capodichino) had been mined but this was de-activated before the mines (timed) exploded and no damages resulted.

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

4. Were stocks of the following materials found available undamaged in adequate quantities to start repair work:-

Cement or lime. None
Aggregate. None known
Sand. Yes
Stone. Yes
Bricks. Yes
Timber. None
Steel or corregated iron. None. Few supplies damaged.
Wall or plaster board. None
Roofing felt, tiles etc. None
Glass or substitute. None, probably hidden

5. Were supplies of builders tools and plant (e.g. scaffolding ladders, concrete mixers) left undamaged. Yes

6. Was sufficient skilled supervision, and skilled and unskilled labour for repairs to buildings found available locally. Yes

7. Any further useful information regarding buildings.

Aside from bombing, principally in Port area, Santa Lucia area (Hotel) P.O. Bldg. - Voltuno Bldg. and others were mined.
The 23 March Hosp. (Capodichino) had been mined but this was de-activated ~~from the mining (timed) exploded~~ and no damaged resulted.

5887

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

BUILDINGS

1. (a) Area in townships reported on Naples.
   (b) Normal civilian population 900,000.

2. What percentage of dwelling houses in towns was found to be:-

   (a) suitable for continued use 80%
   (b) repairable
   (c) totally destroyed or unrepairable 20%

3. What are the predominant building materials used in the area (e.g. wood, brick, stone, pise).

   Stone.

4. Were stocks of the following materials found available undamaged in adequate quantitaties to start repair work?

Cement or lime.	None.
Aggregate.	None known.
Sand.	Yes
Stone.	Yes
Bricks.	Yes
Timber.	None
Steel or corregated iron.	None. Ilva supplies damaged.
Wall or plaster board.	None
Roofing felt, tiles etec.	None
Glass or substitute.	None, probably hidden.

5. Were supplies of builders tools and plant (e.g.scaffolding ladders, concrete mixers) left undamaged ?

   Yes.

6. Was sufficient skilled supervision, and skilled and unskilled labour for repairs to buildings found available locally ?

   Yes.

7. Any further useful information regarding buildings.

   Aside from bombing, principally in Port area, Santa Lucia area (hotels) P.O.Building - Volturno Building and others were mined

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

4. Were stocks of the following materials found available undamaged in adequate quantitaties to start repair work?

Cement or lime.	None.
Aggregate.	None known.
Sand.	Yes
Stone.	Yes
Bricks.	Yes
Timber.	None
Steel or corregated iron.	None. Ilva supplies damaged.
Wall or plaster board.	None
Roofing felt, tiles etcc.	None
Glass or substitute.	None, probably hidden.

5. Were supplies of builders tools and plant (e.g.scaffolding ladders, concrete mixers) left undamaged ?

Yes.

6. Was sufficient skilled supervision, and skilled and unskilled labour for repairs to buildings found available locally ?

Yes.

7. Any further useful information regarding buildings.

Aside from bombing, principally in Port area, Santa Lucia area (hotels) P.O.Building - Volturno Building and others were mined

The 23 March Hosp. (Capodichino) had been mined but this was de-activated and no damaged resulted.

5886

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

4

GAS SUPPLIES

1. (a) Area and townships reported on. Naples, 900,000
   (b) Normal civilian population.

2. Percentage of gas supply capacity intact or damaged.

Intact	Out of action due to damage by bombing or bombardment	Out of action due to damage deliberately done by the enemy
%	%	%

3. Were coal handling plant retorts and coke ovens destroyed. If so, how.

4. Was plant for purification and products extraction destroyed. If so, now.

5. Were gas holders destroyed. If so, how.

6. Were gas mains destroyed. If so, how.

7. Were gas distribution pipes destroyed. If so, now.

8. Were control valves and cocks destroyed. If so, now.

9. Was Consumers Apperatus destroyed. If so, how.

10. Were stocks of repair materials destroyed. If so, now.

11. Was the skilled managerial and operating labour formerly employed in this industry still available or had key men been evacuated.

12. Any other relevant information.

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

If so, how.

4. Was plant for purification and products extraction destroyed. If so, how.

5. Were gas holders destroyed. If so, how.

6. Were gas mains destroyed. If so, how.

7. Were gas distribution pipes destroyed. If so, how.

8. Were control valves and cocks destroyed. If so, how.

9. Was Consumers Apparatus destroyed. If so, how.

10. Were stocks of repair materials destroyed. If so, how.

11. Was the skilled managerial and operating labour formerly employed in this industry still available or had key men been evacuated.

12. Any other relevant information.

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

GAS SUPPLIES

1. (a) Area and townships reported on. Naples.
   (b) Normal civilian population 900,000.

2. Percentage of gas supply capacity intact or damaged.

Intact	Out of action due to damage by bombing or bombardment.	Out of action due to damage deliberately done by the enemy.
-	40%	100%

3. Were coal handling plant, retorts, and coke ovens destroyed. If so, how ?

   Yes - Coal handling plant was mined.
   Retorts were bombed.
   Coke ovens were mined.

4. Was plant for purification and products extraction destroyed ?

   Yes - By bombs.

5. Were gas holders destroyed ?

   Yes - Bombed and damaged by explosion of munitions ship in in harbor. One holder mined.

6. Were gas mains destroyed? If so how ?

   Yes - by bombs.

7. Were gas distribution pipes destroyed ? If so how ?

   Yes - In part by bombs.

8. Were control valves andcocks destroyed ? If so how ?

   Yes.

9. Was consumers Apparatus destroyed ? If so, how ?

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

3. Were coal handling plant, retorts, and coke ovens destroyed. If so, how ?

Yes - Coal handling plant was mined.
Retorts were bombed.
Coke ovens were mined.

4. Was plant for purification and products extraction destroyed ?

Yes - By bombs.

5. Were gas holders destroyed ?

Yes - Bombed and damaged by explosion of munitions ship in in harbor. One holder mined.

6. Were gas mains destroyed? If so how ?

Yes - by bombs.

7. Were gas distribution pipes destroyed ? If so how ?

Yes - In part by bombs.

8. Were control valves andcocks destroyed ? If so how ?

Yes.

9. Was consumers Apparatus destroyed ? If so, how ?

Yes in part - By bombs.

10. Were stocks of repair materials destroyed ? If so, how ?
Yes in part - By bombs. Enemy set fire to coal storage pile of several thousand tons. Burned 60 days.

5884

11. Was the skilled managerial and operating labour formerly employed in this industry still available or had key men been evacuated ?

Some were taken away but come back.

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

6

SEWAGE DISPOSAL SYSTEM

1. Ignore earth closets and in rural areas and villages, bucket removal and cess-pit disposal systems.

2. (a) Area or townships reported on.
   (b) Normal civilian population.

3. (a) Water borne Sewage System

   Percentage intact or damaged.

Intact	Out of action due to bombardment	Out of action due to deliberate damage
%	%	%

   (b) In large towns depending on regular emptying of buckets or of cess-pits, were the tank-wagons and/or pumps removed or so damaged as to be useless.

4. Were public conveniences destroyed, and if so how.

5. Were main or sub-sewers destroyed or blocked.

6. Were disposal works destroyed or damaged, if so how in detail:

   (a) Outfall
   (b) Screens
   (c) Tanks
   (d) Filter beds and fittings
   (e) Pumps and prime movers.

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

	Out of action due to bombardment	Out of action due to deliberate damage
	%	%

(b) In large towns depending on regular emptying of buckets or of cess-pits, were the tank-wagons and/or pumps removed or so damaged as to be useless.

4. Were public conveniences destroyed, and if so how.

5. Were main or sub-sewers destroyed or blocked.

6. Were disposal works destroyed or damaged, if so how in detail:

(a) Outfall
(b) Screens
(c) Tanks
(d) Filter beds and fittings
(e) Pumps and prime movers.

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

5

SEWAGE DISPOSAL SYSTEM

1. Ignore earth closets and in rural areas and villages, bucket removal and cess-pit disposal systems.

2. (a) Area of townships reported on Naples
   (b) Normal civilian population: 900.000

3. (a) Water borne Sewage System

Percentage intact or damaged

Intact	Out of action due to bombardment		Out of action due to deliberate damage	
%	%	Unknown	%	Unknown

(b) In large towns depending on regular emtying of buckets or of cess-pits, were the tank-wagons and or pumps removed or so damaged as to be useless ?

None.

4. Were public conveniences destroyed, and if so how ?

No.

5. Were main or sub-sewers destroyed or blocked by bombing and mines ?

The only wilful destruction of sewers noted was by a mine placed in sewer (almost) 100 yards west of "Navy House". This charge exploded at 3 PM almosto Oct.8 - Not much damage - blew crater almost 60' wide in street - destroyed almost 100 feet of 5' sewer.

Only other damage was due to bombing.

6. Were disposal works destroyed or damaged, if so how in detail:

(a) Outfall
(b) Screens
(c) Tanks
(d) Filter beds and fittings
} not in existence.

(e) Pumps and prime movers. In some cases, yes.

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

Intact	Out of action due to bombardment		Out of action due to deliberate damage	
%	Unknown	%	Unknown	% Unknown

(b) In large towns depending on regular emtying of buckets or of cess-pits, were the tank-wagons and or pumps removed or so damaged as to be useless ?

None.

4. Were public conveniences destroyed, and if so how ?

No.

5. Were main or sub-sewers destroyed or blocked by bombing and mines ?

The only wilful destruction of sewers noted was by a mine placed in sewer (almost) 100 yards west of "Navy House". This charge exploded at 3 PM almosto Oct.8 - Not much damage - blew crater almost 60' wide in street - destroyed almost 100 feet of 5' sewer.

Only other damage was due to bombing.

6. Were disposal works destroyed or damaged, if so how in detail:

(a) Outfall
(b) Screens
(c) Tanks
(d) Filter beds and fittings
(e) Pumps and prime movers.

} not in existence.

In some cases, yes.

5882

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

Major Mocatta - C.A.3.

Subject: Damage to Public Utility Services and Industrial Plans and Machinery

1. In order to assist planning for Civil Affairs requirements it is desired to obtain as complete details as possible of the damage done to Public Utility Services in particular and Plant and Machinery in general.

2. It is realised that some time must elapse before a complete survey of all damage can be done, but in the meantime it would greatly assist if the answers to the questions in the attached questionnaires could be filled in as far as possible for Sicily and that portion of Italy already in our hands.

3. It is important to distinguish between damage done as a result of air bombing or artillery bombardment and deliberate damage done by the enemy as part of a "scorched earth" policy, since damage of the latter kind may be expected even if the enemy voluntarily evacuates some of the territories he now occupies. Such damage may be of various kinds, e.g.:-

Demolition by explosives.
Mechanical damage (smashing by hammers etc.)
Wholesale removal.
Removal or destruction of particular items or parts of machines.
Fire.

4. The questionnaire has been framed with a view to ease and speed in filling in the answers. If, however, copies of more detailed reports can be made available early, they would be received with gratitude even if unofficial and/or incomplete. Questionnaires are attached for the following:-

Electricity supply
Water supply
Gas supply
Sewage disposal
Buildings
Road and Road Bridges
Industrial machinery
Telecommunications
Docks and Harbours
Inland Water Transport
Mail Transport.

5. Each report should open with a statement of the geographical area or townships to which it relates, an estimate of the normal civilian population therein and an estimate of the normal capacity and/or output of the Public Utility Service or industry under review. An indication where appropriate, of the total length and classification of roads, electricity supply lines, water pipe routes etc. would be useful.

6. The following questions should also be dealt with -

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

be the questions in the attached questionnaires could be filled in as far as possible for Sicily and that portion of Italy already in our hands.

3. It is important to distinguish between damage done as a result of air bombing or artillery bombardment and deliberate damage done by the enemy as part of a "scorched earth" policy, since damage of the latter kind may be expected even if the enemy voluntarily evacuates some of the territories he now occupies. Such damage may be of various kinds, e.g.:-

Demolition by explosives.
Mechanical damage (smashing by hammers etc.)
Wholesale removal.
Removal or destruction of particular items or parts of machines.
Fire.

4. The questionnaire has been framed with a view to ease and speed in filling in the answers. If, however, copies of more detailed reports can be made available early, they would be received with gratitude even if unofficial and/or incomplete. Questionnaires are attached for the following:-

Electricity supply
Water supply
Gas supply
Sewage disposal
Buildings
Road and Road Bridges
Industrial machinery
Telecommunications
Docks and Harbours
Inland Water Transport
Mail Transport.

5. Each report should open with a statement of the geographical area or townships to which it relates, an estimate of the normal civilian population therein and an estimate of the normal capacity and/or output of the Public Utility Service or industry under review. An indication where appropriate, of the total length and classification of roads, electricity supply lines, water pipe routes etc. would be useful.

6. The following questions should also be dealt with -

To what extent was deliberate damage done in areas which were NOT the scene of major military operations.

To what extent could emergency plant be put into operation by cannabelization or by transfer of undamaged plant.

5881

What emergency parts of plant etc., if any, were accumulated and taken with or behind the Force into captured territory. Was it used?

Were complete records available?

/7.

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

3

INDUSTRIAL MACHINERY

1. (a) Area or townships under report.
   (b) Estimated normal civilian population of area.

2. Were particular industries marked for destruction or was damage done widespread.

3. If particular industries singled out for destruction, give details including estimated output of product, number of persons employed and the proportion of the total in the particular industry in the area.

Industries should be reported on as follows:-

(a) Flour mills and grain elevators.
(b) Bakeries.
(c) Coal stores.
(d) Other food industries.
(e) Quarries.
(f) Other building and road material industries.
(n) Engineer works:
- (i) Railway workshops
- (ii) M.T. Manufacturers
- (iii) M.T. repair (including garages)
- (iv) Ship building yards
- (v) Ship repair yards
- (vi) Mechanical engineering generally
- (vii) Electrical manufacturing.

4. Give details of damage done, and now, to:-

(a) Industrial buildings
(b) Prime movers:
- (i) Sub-stations
- (ii) Electric motors, control gear and wiring.
- (iii) Boiler houses
- (iv) Engines.

(c) Power transmission equipment:
- (i) Shafting and accessories
- (ii) Belting

(d) Machine tools and industrial machinery generally.

5. (a) Was repair and/or reinstatement possible with local resources of labour and material, and

(b) What proportion of output was so restored.

6. Was the skilled managerial and operating labour formerly employed in industry still available or had key men been evacuated.

7. Any other relevant information.

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

(a) Flour mills and grain elevators.
(b) Bakeries.
(c) Coal stores.
(d) Other food industries.
(e) Quarries.
(f) Other building and road material industries.
(h) Engineer works:
(i) Railway workshops
(ii) M.T. Manufacturers
(iii) M.T. repair (including garages)
(iv) Ship building yards
(v) Ship repair yards
(vi) Mechanical engineering generally
(vii) Electrical manufacturing.

4. Give details of damage done, and now, to:-

(a) Industrial buildings
(b) Prime movers:
(i) Sub-stations
(ii) Electric motors, control gear and wiring.
(iii) Boiler houses
(iv) Engines.

(c) Power transmission equipment:

(i) Shafting and accessories
(ii) Belting

(d) Machine tools and industrial machinery generally.

5. (a) Was repair and/or reinstatement possible with local resources of labour and material, and

(b) What proportion of output was so restored.

6. Was the skilled managerial and operating labour formerly employed in industry still available or had key men been evacuated.

7. Any other relevant information.

5880

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

Major Mocatta - C.A.3.

Subject: Damage to Public Utility Services and Industrial Plans and Machinery

1. In order to assist planning for Civil Affairs requirements it is desired to obtain as complete details as possible of the damage done to Public Utility Services in particular and Plant and Machinery in general.

2. It is realised that some time must elapse before a complete survey of all damage can be done, but in the meantime it would greatly assist if the answers to the questions in the attached questionnaires could be filled in as far as possible for Sicily and that portion of Italy already in our hands.

3. It is important to distinguish between damage done as a result of air bombing or artillery bombardment and deliberate damage done by the enemy as part of a "scorched earth" policy, since damage of the latter kind may be expected even if the enemy voluntarily evacuates some of the territories he now occupies. Such damage may be of various kinds, e.g.:-

Demolition by explosives.
Mechanical damage (smashing by hammers etc.)
Wholesale removal.
Removal or destruction of particular items or parts of machines.
Fire.

4. The questionnaire has been framed with a view to ease and speed in filling in the answers. If, however, copies of more detailed reports can be made available early, they would be received with gratitude even if unofficial and/or incomplete. Questionnaires are attached for the following:-

Electricity supply
Water supply
Gas supply
Sewage disposal
Buildings
Road and Road Bridges
Industrial machinery
Telecommunications
Docks and Harbours
Inland Water Transport
Mail Transport.

5. Each report should open with a statement of the geographical area or townships to which it relates, an estimate of the normal civilian population therein and an estimate of the normal capacity and/or output of the Public Utility Service or industry under review. An indication where appropriate, of the total length and classification of roads, electricity supply lines, water pipe routes etc. would be useful.

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

2. It is realised that some time must elapse before a complete survey of all damage can be done, but in the meantime it would greatly assist if the answers to the questions in the attached questionnaires could be filled in as far as possible for Sicily and that portion of Italy already in our hands.

3. It is important to distinguish between damage done as a result of air bombing or artillery bombardment and deliberate damage done by the enemy as part of a "scorched earth" policy, since damage of the latter kind may be expected even if the enemy voluntarily evacuates some of the territories he now occupies. Such damage may be of various kinds, e.g.:-

Demolition by explosives.
Mechanical damage (smashing by hammers etc.)
Wholesale removal.
Removal or destruction of particular items or parts of machines.
Fire.

4. The questionnaire has been framed with a view to ease and speed in filling in the answers. If, however, copies of more detailed reports can be made available early, they would be received with gratitude even if unofficial and/or incomplete. Questionnaires are attached for the following:-

Electricity supply
Water supply
Gas supply
Sewage disposal
Buildings
Road and Road Bridges
Industrial machinery
Telecommunications
Docks and Harbours
Inland Water Transport
Mail Transport.

5. Each report should open with a statement of the geographical area or townships to which it relates, an estimate of the normal civilian population therein and an estimate of the normal capacity and/or output of the Public Utility Service or industry under review. An indication where appropriate, of the total length and classification of roads, electricity supply lines, water pipe routes etc. would be useful.

6. The following questions should also be dealt with -

To what extent was deliberate damage done in areas which were NOT the scene of major military operations.

To what extent could emergency plant be put into operation by cannabalization or by transfer of undamaged plant.

What emergency parts of plant etc., if any, were accumulated and taken with or behind the Force into captured territory. Was it used?

Were complete records available?

5881

/7.

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

7. It would be appreciated if the completed questionnaires and any other relevant reports could be forwarded by air mail as they become available. We would furtner like, if possible, the names and designations of the C.A. senior staff officers concerned with Engineer and Public Utility Services of all sorts, transportation, road transport, and telecommunications, so that we can make direct contact.

C.A.13.
ABBey 1272 Ext:
September, 1943.

Lieut.-Colonel, G.S.

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

3

INDUSTRIAL MACHINERY

1. (a) Area or townships under report.
(b) Estimated normal civilian population of area.

2. Were particular industries marked for destruction or was damage done widespread.

3. If particular industries singled out for destruction, give details including estimated output of product, number of persons employed and the proportion of the total in the particular industry in the area.

Industries should be reported on as follows:-

(a) Flour mills and grain elevators.
(b) Bakeries.
(c) Coal stores.
(d) Other food industries.
(e) Quarries.
(f) Other building and road material industries.
(h) Engineer works:
(i) Railway workshops
(ii) M.T. Manufacturers
(iii) M.T. repair (including garages)
(iv) Ship building yards
(v) Ship repair yards
(vi) Mechanical engineering generally
(vii) Electrical manufacturing.

4. Give details of damage done, and now, to:-

(a) Industrial buildings
(b) Prime movers:
(i) Sub-stations
(ii) Electric motors, control gear and wiring.
(iii) Boiler houses
(iv) Engines.

(c) Power transmission equipment:

(i) Shafting and accessories
(ii) Belting

(d) Machine tools and industrial machinery generally.

5. (a) Was repair and/or reinstatement possible with local resources of labour and material, and

(b) What proportion of output was so restored.

6. Was the skilled managerial and operating labour formerly employed in industry still available or had key men been evacuated.

7. Any other relevant information.

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

(c) Coal stores.
(d) Other food industries.
(e) Quarries.
(f) Other building and road material industries.
(h) Engineer works:
(i) Railway workshops
(ii) M.T. Manufacturers
(iii) M.T. repair (including garages)
(iv) Ship building yards
(v) Ship repair yards
(vi) Mechanical engineering generally
(vii) Electrical manufacturing.

4. Give details of damage done, and now, to:-

(a) Industrial buildings
(b) Prime movers:
(i) Sub-stations
(ii) Electric motors, control gear and wiring.
(iii) Boiler houses
(iv) Engines.

(c) Power transmission equipment:

(i) Shafting and accessories
(ii) Belting

(d) Machine tools and industrial machinery generally.

5. (a) Was repair and/or reinstatement possible with local resources of labour and material, and

(b) What proportion of output was so restored.

6. Was the skilled managerial and operating labour formerly employed in industry still available or had key men been evacuated.

7. Any other relevant information.

5880

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

ELECTRICITY SUPPLY

1. (a) Area or townships under review.
   (b) Estimated normal civilian population.

2. Number and total capacity of each type (hydraulic and thermal) of generating stations covered by this report.

3. Are there any abnormal demands for electricity in the area (e.g. electro-chemical industry). If so, give brief details including demand.

4. Percentage (on capacity) of existing stations destroyed and intact: (a) hydraulic, (b) thermal.

Intact	Out of action due to bombing and/or bombardment	Out of action due to deliberate damage
%	%	%

5. Hydraulic Stations only:-

Was damage done and if som how, to:-

(a) Impounding dams and reservoirs.
(b) Pipe lines.
(c) Valves and pen-stocks.
(d) Water turbines.

(Noting special damage to governor gear and lubricating systems).

6. Thermal Stations only:-

If possible give number and capacity of boilers, whether damaged and whether repairable locally. Was damage done and if so, how, to:-

(a) Boilers and boiler fittings.
(b) Feed pumps.
(c) Stokers, coal conveyors and ash plant
(d) Fans
(e) Steam mains and valves.
(f) Steam turbines (noting special damage to governor gear and lubricating systems).
(g) Condensers, condensing water pipes, culverts and cooling towers.
(h) Air pumps and extraction pumps.
(j) I.C. engines (noting special damage to injectors, lubricators, lubricating systems and governor gear).

7. All types of Generating Station

If possible, give a list of the generators, stating capacity, voltage, whether damaged and whether repairable locally. Was damage done and if so, how, to:-

(a) Generators, alternators and excitors including associated close

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

Intact	Out of action due to bombing and/or bombardment	Out of action due to deliberate damage
%	%	%

5. Hydraulic Stations only:-

Was damage done and if son how, to:-

(a) Impounding dams and reservoirs.
(b) Pipe lines.
(c) Valves and pen-stocks.
(d) Water turbines.

(Noting special damage to governor gear and lubricating systems).

6. Thermal Stations only:-

If possible give number and capacity of boilers, whether damaged and whether repairable locally. Was damage done and if so, how, to:-

(a) Boilers and boiler fittings.
(b) Feed pumps.
(c) Stokers, coal conveyors and ash plant
(d) Fans
(e) Steam mains and valves.
(f) Steam turbines (noting special damage to governor gear and lubricating systems).
(g) Condensers, condensing water pipes, culverts and cooling towers.
(h) Air pumps and extraction pumps.
(j) I.C. engines (noting special damage to injectors, lubricators, lubricating systems and governor gear).

7. All types of Generating Station

If possible, give a list of the generators, stating capacity, voltage, whether damaged and whether repairable locally. Was damage done and if so, how, to:-

(a) Generators, alternators and exciters including associated close circuit coolers and lubricating systems.
(b) Main switchgear.
(c) Switchgear control panels.
(d) Transformers.
(e) Are buildings seriously damaged?
(f) Are turbine room cranes still operating?

5879

8. H.V. Transmission System (2.2 k.v. and over)

Was damage done and if so, how, to:-

(a) Pylons
(b) Insulators.
(c) Switching stations.
(d) Transformers.
(e) Underground cables.

/9.

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

9. L.V. Distribution (below 2.2. k.v.)

Was damage done and if so, how, to:-

(a) Poles.
(b) Insulators.
(c) Switchgear.
(d) Transformers.
(e) Underground cable.

10. Consumers apparatus

Was damage done and if so, how, to:-

(a) Consumers sub-stations:
    (i) Transformers
    (ii) Switchgear
(b) Motors and control gear
(c) Wiring.
(d) Cookers and heaters.
(e) Lamps
(f) Any other apparatus.

11. Any other relevant information.

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

TELECOMMUNICATIONS

1. Locality (Province or principal town).....Approx area covered.....sq. miles.

2. (a)Approximate number of exchanges .....
(b)Rough estimate of number of exchanges over 500 lines .....
(c)Predominant type. Magneto? CBS? Common Battery? Automatic?

3. (a)Were all local exchanges destroyed in areas of military operations? .....
If not, what is left intact? .....

(b) Where local exchanges were put out of action, was damage generally irrepairable?.....If obviously deliberate, did it show knowledge of how best to make the job effective? .....

4. Was there much calculated damage to main trunk or junction line plant:-

(a) Overhead .....

(b) Underground .....

5. To what extent were amplifying stations in the area damaged? (All, nearly all, very few) .....

6. Was there much deliberate damage to private exchange switchboards in hotels, factories, etc?.....

7. Was thorough demolition carried out in areas NOT the scene of major military operations? .....

8. Were skilled personnel of local posts and telegraphs available for repair and operating? .....Or had they been evacuated?.....

9. Were district stocks of apparatus and line plant stores destroyed? .....

10. Were local line plant records generally destroyed? .....

11. Was it possible to establish a skeleton telephone service with the aid of local private exchanges by cannilebisation or transfer? .....
.....
.....
.....

12. If exchanges or repeater stations were left undamaged in any part of the area, was service much influenced by power supply failure? .....
If so, for how long? .....

13. Any other relevant information.

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

or how best to make the job effective? .....

4. Was there much calculated damage to main trunk or junction line plant:-

(a) Overhead .....

(b) Underground .....

5. To what extent were amplifying stations in the area damaged? (All, nearly all, very few) .....

6. Was there much deliberate damage to private exchange switchboards in hotels, factories, etc?.....

7. Was thorough demolition carried out in areas NOT the scene of major military operations? .....

8. Were skilled personnel of local posts and telegraphs available for repair and operating? .....Or had they been evacuated?.....

9. Were district stocks of apparatus and line plant stores destroyed? .....

10. Were local line plant records generally destroyed? .....

11. Was it possible to establish a skeleton telephone service with the aid of local private exchanges by cannilabisation or transfer? .....
.....
.....
.....

12. If exchanges or repeater stations were left undamaged in any part of the area, was service much influenced by power supply failure? .....
If so, for how long? .....

13. Any other relevant information.

Sept 43

5878

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

1669