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10000/109/990
(VOL. III)

MONTHLY REPORTS, PUBLIC
FEB. - OCT. 1945

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10000/109/990
(VOL. III)

MONTHLY REPORTS, PUBLIC WORKS & UTILITIES
FEB. - OCT. 1945

3. Piemonte:

a. Lack of transport hampering work of officers and Italian staff.
b. Decided that privately-owned autostrada would be maintained by the State.
c. Trams in cities operating.
d. Efforts being made to locate all TODT yards.
e. Survey of water transport disclosed that the Po was navigable for a short distance by craft of 90 tons.
f. Electrical consumption has risen from 240,000 KW in May to 270,000 in June and is now approximately 315,000 KW.

4. Lombardia:

a. Milan City remains key problem; much work yet necessary for clearing demolition and debris.
b. Housing situation difficult as city overcrowded.
c. Gas plants shut down for lack of fuel.

5. Venezie:

a. A good deal of debris clearance to be done. Progress rather slow.
b. Irrigation canals have been repaired in time to save crops.
c. Electrical power satisfactory.

2 August 45

A. B. ARNOLDY
Capt, Sp Res

288

Clear

Please see P.W. & U. report for July. particularly items underlined.

1459

Cleared.
F.W.C. 29/9.

306

C80 Folios 289-305 monthly report of PWD S/C for info. Highlights underlined. Summary (Folios 303-305) covers the situation pretty well.

Ernd 28/9

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306

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Ex. Com.

324

CSO- Fol. 306-323, Sept. monthly report of PWO S/C Summary (cf. 321-2) just about tells the story.

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C.S.O.:

Summary of Public Works and Utilities Monthly Report for June 1945.

I - PUBLIC WORKS DIVISION

1. Housing: Communal housing committees becoming increasingly active in Italian Government territory but progress less advanced in AMG territory. 24,344 housing repair projects started and 12,646 completed.

2. Ports: A five-year rehabilitation program for port of Genova submitted. Approximate total cost: 950 million lire.

3. Highways: AFHQ road priorities established in the North and requests received from military districts for contracts to be placed as soon as possible for reconstruction of bridges and road maintenance. Bailey type bridges could be recovered and therefore schemes for permanent reconstruction of Bailey sites is being given priority.

4. Inland Waterways: Plans under way for rehabilitation of inland waterways in Po Valley including repair of locks and removal of obstructions.

II - ELECTRICAL DIVISION

1. Master Control Italian Grid: Operation of power plants and transmission system in Central Italy satisfactory. Control from Master Control Center, Rome.

2. Power Allocation: Study of power availability for balance of 1945 presented to Allied Forces Local Resources Board (Italian), and curtailment seems imminent in Southern Italy. Matter also to be studied by Italian Government.

3. Italian Advisory Committees: These are being held regularly. Discussion of conversion of electrical service in Central and Southern Italy from 45 to 50 cycles, and conversion scheduled for latter part of July in Central Italy and December for Southern Italy.

4. Interchange of power between Central & Southern Italy: To help meet expected power shortage plans in progress to rehabilitate the high voltage transmission lines between Terni and Pescara and Pescara and Naples.

5. Interchange of power between Northern & Central Italy: In June three 60,000-volt transmission lines capable of carrying approximately 20,000 Kw power from Northern to Central Italy completed and put in operation.

6. AMG Venezia Giulia: Chief of Electrical Division appointed as member of mission to meet with Yugoslav Mission for recommending procedures for industrial and financial relations between areas under jurisdiction of Allies and Yugoslavs.

III - REGIONAL REPORTS

1. Emilia:
   a. Progress on construction and maintenance of roads, bridges, slow due to shortage of materials and transport and lack of POL.
   b. Housing committees functioning in every province of Region.
   c. All work for repair and maintenance of drainage and flood control formerly done by Army now done by Public Works & Utilities of Region.
   d. Water supply in Bologna has been augmented by making available an

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Approximate total cost: 950 million lire.

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4. Interchange of power between Central & Southern Italy: To help meet expected power shortage plans in progress to rehabilitate the high voltage transmission lines between Terni and Pescara and Pescara and Naples.

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   c. All work for repair and maintenance of drainage and flood control formerly done by Army now done by Public Works & Utilities of Region.
   d. Water supply in Bologna has been augmented by making available an additional 1,000,000 gallons per day from Setta aqueduct.
   e. Contractors and engineers in Region believed capable and competent to handle program of reconstruction provided transportation and POL are made available.

2. Liguria: During June all ports opened to greater or lesser extent. Mines still prevail in Genova and La Spezia. Savona successfully cleared and coal ships now entering. Ships also entering Genova in certain areas.

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265.

C&O.

1. What is situation about French loan
2. Electric Power from Lisbon
2. See draw Reinoute's attention to this X

MS/ [illegible]

266

Capt Anderson.

Action in above please. Also.
Person to [illegible] S/c Ex Comm Communique
page 260

Sgd 16/7.

2. Lee draws Prime Min's attention to this

MS/16/7

266

Capt Anderson.

Action as above please. Also
pass on to ~~Holt~~ S/C Ex Comm Comment re
page 266

Sir 16/7.

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IV - REGIONAL REPORTS

TOSCANA

The handover of Florence, Pistoia, Lucca, and Apuania to Regional control increased amount of reconstruction necessary to be done.

Water projects in Pistoia, Florence, and Livorno are under way.

With power from the North in the near future, water pumps in Florence will operate more satisfactorily.

Natural gas supply is good: artificial gas supply critical due to lack of coal.

All public works projects initiated by Italians and handled by them.

EMILIA

Military highways have been taken over from Army and District for maintenance work. Work in provinces of Forli and Ravenna hampered due to shortage of materials and transport, with transport being the major problem. Fifth Army promised to relieve by releasing German equipment.

Acute shortage of all controlled materials exists.

USVS and Genio Civile officials co-operating very well.

Housing decrees have been implemented in all provinces.

PIEMONTE

Military highways priorities have been obtained and main roads are open to Milan, Genoa, Modena, and all provincial capitals.

One TODT Organization Dump taken over by Regional Engineer making considerable material available.

Public Works Section very active.

Of 48 gas plants, 7 are municipally owned. However, coal is the main requirement.

X All trams operating in the cities. Transport situation apparently satisfactory, but transport for Genio Civile and Italian Engineers is almost non existent.

LOMBARDIA

Survey showed damage to utilities slight -- damages to works and buildings, with exception of Milan, less than expected.

Italian Engineer organizations working satisfactorily. 45 bridges reported damaged on highways other than military.

A program of 50,000,000 for public works being set up for the rest of this year.

Water works are normal: no immediate problems exist.

Transport situation better than in Southern Italy, but tires are critical.

VENEZIE

The most urgent work was to repair embankments of various rivers and canals which were damaged by aerial bombs and demolitions.

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Damage in the Region not too severe.

State roads were found to be in good repair.

Generally, water situation is good.

Transport is a serious problem. 264

This is the page before last. A good Summary. Should we draw Pencil attention to items X above! Lt 11/3

A. R. ARNOLDY
Capt, Sp Res

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Ex Cook D

~~G.S.C.~~:

Summary of Public Works & Utilities Subcommission Monthly Report for May.

I - SUMMARY

PUBLIC WORKS DIVISION

Highways in the North found in fair condition. No serious difficulties anticipated in repairs and maintenance.

Work projects in certain areas will have to be initiated to relieve unemployment.

Total number of bridges completed is 1652.

ELECTRICAL DIVISION

Master Control Center in Rome controlling satisfactorily the power plants and transmission systems in Central Italy.

Serious consideration given to standardization of frequency at 50 cycles throughout Central and Southern Italy.

Ample electric power available in the whole of Northern Italy.

About 10% of the generating plants damaged.

French have taken over plants in Liguria area. Therefore, power from these not available to Northern Italy.

Utility rates at Florence increased.

II - PUBLIC WORKS DIVISION

Lt Col V.S. Thompson and Capt R.W. Shepherd visited all of the Northern regions. Highways were found in relatively good condition. Where bridges had been blown, temporary structures or deviations had been provided. Damage to utilities is widespread but not all of a serious nature. The Housing Decree in Italian Government Territory producing results. Transport for the hauling of construction and maintenance materials inadequate and is being aggravated by withdrawal of military engineer units from the theatre. The activities of Regional Engineer officers restricted by lack of vehicles. Many of the road machinery recently received transferred to Ministry of Public Works and is in operation.

III - ELECTRICAL DIVISION

Operation of power plants and transmission systems in Central Italy satisfactory and is controlled from Master Control Center in Rome.

Italian Advisory Committees are now considering the standardization of frequency throughout Central and Southern Italy at 50 cycles.

With the cessation of hostilities the need for the Electrical Reconstruction Committee has ceased and AFHQ Administrative Memorandum 32 rescinded Administrative Memorandum No. 58 of 1944 and Section one of Administrative Memorandum No. 7, 1945; thus the Committee has been dissolved, its functions transferred to Allied Commission, and military agencies engaged in electric power rehabilitation instructed to coordinate plans with Allied Commission.

Inspection during the month of electric power position in Northern Italy: 10% of generating plants damaged but better than 50% of this will be repaired quickly. Ample power in Northern Italy at present. 120,000 and 150,000 volt electric transmissio

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CSO:

Folios 212, 213, 214 and summary at 223, as side-lined, show principal points of note in this Monthly Report.

8 April 45.

Major

225 254

TO : C. S. O.

For your information, the following is a summary of April Report of Public Works and Utilities Sub-Commission: Colonel L. A. Jenny upon his return from Switzerland rendered the following on the purpose of his Mission:

a. To endeavour to have electricity exported to North Italy if needed after liberation.

b. To obtain electrical equipment.

c. To ascertain what credit arrangements could be made to pay for these exports

Re: Public Works Division Reports. Information to date in newly liberated areas encouraging but inadequate.

Electrical Division Reports. It is proposed to form Advisory Committee on electrical power in Northern Italy as soon as possible. 565 Kms. of transmission lines rehabilitated during the month. Only two hundred tons of imported material have been required.

A. B. ARNOLDY
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S. 31/5

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HEAD QUARTERS ALLIED COMMISSION
AIC 374
Public Works and Utilities Sub-Commission

18 October 1945

OCT 23 1945

ACTION REPORT - SARDINIA

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LIC 324
Public Works and Utilities Sub-Commission

19 October 1945

OCT 23 1945

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Ltr to M 324

PA 29/10

Yen (Cont Wishes)

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PUBLIC WORKS DIVISION

Highways and Bridges.

Arrangements completed for Italian Government to assume responsibility for military roads on 1st October. Situation supplies for Ministry of Public Works now arriving from U.S. and distribution to Compartments is now underway.

Housing.

Rehousing program under existing Decrees still not satisfactory but Ministry of Public Works is taking corrective action in vigorous manner. The creation of a National Housing Commission, composed of outstanding Builders and Architects as well as Ministry Officials is proposed and when formed should provide the strong central direction required.

Ports.

Rehabilitation work proceeding satisfactorily at the ports of Genoa, Leghorn, Civitavecchia, Naples, Savona, Imperia, La Spezia and Ancona. No new work was approved during the month.

General.

Reconstruction projects are still being processed and approved in all operating Regions and will continue until final date of closing is announced. Extensive public works programs are well underway in all Regions with special attention being given to bridges on Military Routes, Housing, Flooding Control and Sanitation. No major water supply problem remains uncorrected. Snow removal equipment is now being assembled and distributed on critical highways.

ELECTRICAL DIVISION

Advisory Committees.

The Regional Advisory Committees for Electricity are now operating under acting Chairmen who are members of the respective committees.

The Ministry of Public Works is preparing a decree which is to be published fixing the responsibilities, membership and chairmen of the National and Regional Advisory Committees on Electric Power.

Power Allocations.

At the request of the A.C.C. (Z) S. the electric power committee, on which this sub-commission is represented, has recommended that a special committee, similar to the present committee, continue in force for the duration of military necessity. Letter signed by C.C.

No additional power was allocated for Southern Italy for October. The allocations have remained practically unchanged since July. The electricity supply is still acute in this area.

In Central Italy 16,500 KW of demand on 7.4 million KWH of additional electrical energy was allocated all to the Leghorn and Florence areas. This power comes from generating plants in those areas and from North Italy.

In North Italy trouble from overloading of transmission lines and 1492

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In North Italy trouble from overloading of transmission lines and transformers in the larger cities continues to be an increasing problem until gas pipelines are able to resume production.

The starting up of some seasonal industries during this winter

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aggravate the overall power situation in areas in North Italy. In the past certain industries were only permitted to operate during periods in the summer when the electricity supply was not critical.

Generation and Transmission.

In Southern Italy the fuel oil supply for the thermal plants in Naples for October will be left about the same as for September. There was a slight improvement in the Sila reservoir position as of 1st October 1945 compared with the original forecast made in June 1945.

The transmission line between Central and Southern Italy is now scheduled for completion at mid November. The Lute generating plant of 5,000 K. capacity in Southern Italy was restored to operation during the month.

The fourth and last 25,000 Kw unit at Garigleto (Terni) is scheduled for completion by mid November. It is planned to transmit part of its output to Southern Italy over the Terni - Rosetta transmission line referred to in the previous paragraph.

Rates.

All requests for rate adjustments for electricity, water, and gas in North Italy which were formerly handled by this Sub-Commission are now referred to the North Italy Price Fixing Board, Milan, for action.

Rate adjustments in government controlled Italy remain under the jurisdiction of the Inter-Ministerial Price Committee of the Italian Government located in Rome.

Supplies.

Most all supplies regarding supplies are now handled by the appropriate ministries of the Italian Government, but a great deal of time is spent in advising and guiding the public utility companies on proper procedure to be adopted in securing needed items and in assisting the companies in obtaining scarce and critical items of stores needed in electrical rehabilitation work.

Additional truck tyres were made available to companies engaged on work of public utility importance but the supply is still short of demands; tyre distribution will be handled by the Italian Government in the future.

Demands for transformer oil exceeds the supply so that it is necessary for this Sub-Commission to continue to screen all requests.

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PUBLIC WORKS DIVISION

ROMA

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1. Highways and Bridges.

Arrangements have been completed for the Italian Ministry of Public Works to assume responsibility for maintenance of military routes on 1st Oct. This turnover has been underway for the past three months and the Ministry Organization has demonstrated that the program can be effectively carried on without assistance from military units provided vast transport is made available. Trucks now on hand are inadequate but additional vehicles are to be made available. Bitumen supplies for the Ministry of Public Works are now arriving from U.S. and initial distribution on a compartmental basis is proceeding. Additional stocks of bitumen for military routes are being turned over to Ministry Field Offices by Military Units. By the end of September 2,249 bridges had been completed throughout Italy.

2. Housing.

The re-housing program under existing Italian legislative decrees is functioning well in those sections which have not been much damaged. In devastated areas these decrees are not sufficiently comprehensive and corrective measures are now being taken by the Ministry of Public Works.

Measures are now proposed by the Minister of Public Works to treat the devastated areas as special cases due to the fact that present decrees cannot be implemented successfully in these areas. The creation of a National Housing Commission, composed of outstanding builders and architects as well as ministry officials is proposed and when formed should provide the strong central direction required.

For the past ten days our housing Section has been in daily contact with the office of the Ministry of Public Works studying a National housing scheme whereby housing will be placed into two categories: (a) Emergency housing and (b) long term housing. The first category will automatically be set up in all devastated areas as special cases independent of all existing Italian legislative decrees. The second category will of course be initiated only when all roofless persons of an area have been temporarily re-housed. It must be realized that however good a housing scheme may be, it cannot [illegible] to supply brick and cement plants located in or near

1	Highways and bridges	3
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3. Ports.

No new projects for port work were approved during September but the extensive program previously initiated is proceeding in a satisfactory manner. Rehabilitation work is underway at the ports of Civitavecchia, Genoa, Leghorn, Naples, Savona, Imperia, Ancona and La Spezia. Reconstruction of warehousing facilities presents the greatest problem as many of the structures were completely destroyed. Emergency repairs are in hand on all warehouses where complete reconstruction is not involved but shortage of building materials and excessive costs have deferred the construction of complete buildings.

4. General.

Reconstruction projects of a vital nature are still being processed and approved in all operative regions and will continue to be accepted until the final closing date is announced. Most work of a critical nature has been approved and placed in operation and careful screening is being done by Regional Engineering Officers on the flood of non-essential projects now being presented to them. This type of project is being considered only where the unemployment problem is serious. Extensive public works programs are well underway in all Regions with special attention being given to bridges on Military Routes, Housing, Flood Control and Sanitation. The program is proceeding efficiently and can be handed over to Italian Control with little confusion or delay. No major water supply problem remains unCorrected. In anticipation of the coming winter, snow removal equipment is now being assembled and distributed on critical highways.

5. Attached are tables reflecting the present status of work projects in Italian Government Territory and in A.M.G. Regions :-

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warranted where complete reconstruction is not involved but shortage of building materials and excessive costs have deferred the construction of complete buildings.

4. General.

Reconstruction projects of a vital nature are still being processed and approved in all operating regions and will continue to be accepted until the final closing date is announced. Most work of a critical nature has been approved and placed in operation and careful screening is being done by Regional Engineering Officers on the flood of non-essential projects now being presented to them. This type of project is being considered only where the unemployment problem is serious. Extensive public works programs are well underway in all Regions with special attention being given to bridges on Military Routes, Housing, Flood Control and Sanitiche. The program is proceeding efficiently and can be handed over to Italian Control with little confusion or delay. No major water supply problem remains uncorrected. In anticipation of the coming winter, snow removal equipment is now being assembled and distributed on critical highways.

5. Attached are tables reflecting the present status of work projects in Italian Government Territory and in A.M.G. Regions :-

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TYPE OF PROJECT	works initiated during month	cost (Lire)	works completed during month	cost (Lire)	works in progress during month	cost (Lire)
Table "A"			Classes of Minor Projects			
roads	27	199,810,023	42	42,660,666	242	256
bridges	29	103,261,630	19	11,536,000	74	207
TOTAL "A"	56	303,374,953	61	124,196,666	316	1,00
Table "B"			Civilian Works			
roads	373	615,492,059	157	294,088,978	907	96
bridges	193	537,386,129	206	126,119,935	729	1,31
public buildings	16	103,138,098	139	72,673,696	161	0
schools	88	64,920,639	65	27,681,858	286	25
churches & charitable inst.	84	65,065,164	74	31,336,385	289	23
rest houses, etc.	193	192,610,259	289	99,049,213	167	32
aqueducts & sewers	60	61,511,049	66	35,031,159	284	25
hydraulic works	39	46,734,256	18	5,796,491	132	68
maritime works	36	51,125,491	16	2,516,737	140	25
penal & legal	629	12,662,543	143	146,676,343	2,022	1,38
portion [illegible]	59	72,627,267	32	23,681,219	206	44
TOTAL "B"	3,087	2,030,656,951	1,125	826,734,821	6,193	6,77
GRAND TOTAL (A + B)	3,137	2,334,031,864	1,192	1,000,931,487	6,169	7,7

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DIST.	works initiated during month	COST (disc.)	works completed during month	COST (disc.)	works in progress during month	COST (disc.)
CHARGES TO CAPITAL ACCOUNT						
	21	199,810,023	2	2,660,800	242	784,172,559
	23	153,301,530	15	71,536,000	74	267,948,773
	50	332,374,503	13	128,196,682	316	1,001,422,149
CHARGES TO EXPENSE ACCOUNTS						
	573	613,192,534	157	292,688,978	907	96,437,386
	193	237,346,129	206	126,219,945	729	1,315,63,572
	136	166,358,695	150	72,673,088	61	45,092,632
	88	84,225,631	65	27,261,658	286	235,959,213
	81	65,085,164	71	31,336,283	289	257,461,167
	193	192,610,239	287	99,019,240	467	325,370,385
	60	61,941,049	68	35,031,158	284	252,135,101
	39	46,764,256	18	8,796,491	142	105,155,329
	38	51,125,401	16	9,316,737	140	96,768,876
	823	82,62,34	143	140,676,345	2,022	1,361,047,304
	8	72,327,207	35	29,384,219	256	449,822,389
	2,087	2,035,756,831	1,423	671,774,021	6,123	6,771,034,905
	2,137	2,208,064,862	1,458	1,000,951,187	6,379	7,761,206,734

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PUBLIC WORKS PROJECTS AT SEA LEVEL

	Initiated during month	C O S T (Lire)	Completed during month	C O S T (Lire)	In Progress during month	C
Table "A"			Schemes of Military Priority			
Roads	34	124,132,000	8	4,630,000	166	642
Bridges	29	180,556,000	6	8,327,000	73	393
TOTAL	63	302,688,000	14	12,957,000	239	955
Table "B"			Schemes other than of military priority (but for which approval AC/AMG was required)			
Roads	441	1,193,024,542	43	32,611,500	357	1,652
Bridges & Retaining Walls	149	729,524,000	11	9,382,000	371	98
Public Buildings	778	872,093,072	30	8,964,258	81	1,570
Schools	194	70,879,682	10	1,238,100	40	26
Debris Removal & Disposal	66	3,821,951	10	7,252,558	17	148
Aqueducts, Sewers	355	160,927,257	51	61,725,201	191	739
Hydraulic Works	3	3,247,500	2	820,000	1	
Maritime works	76	359,744,880	26	17,243,839	115	200
Housing	130	57,050,947	28	17,724,000	56	87
Fortifies	57	66,802,902	1	2,200,000	94	102
TOTAL	2,129	3,723,217,785	242	159,361,636	2,696	4,603
Table "C"			Schemes handled independently by Italians Agencies			
Roads	22	35,370,225	16	23,170,000	58	86
Bridges	119	24,143,201	27	23,462,523	266	3
Public Buildings	259	62,068,992	46	27,867,592	160	258
Debris Removal	20	3,921,000	74	92,656,686	171	10
Water works, Sewers	116	23,305,669	35	26,243,752	222	7
Housing	5	2,360,000	22	42,313,122	30	5
Forts	1	190,000	--	--	17	1
Fortifica	16	1,634,000	--	--	50	6
TOTAL	598	153,104,085	282	318,055,922	1,324	1,126
GRAND TOTAL	2,790	4,250,010,693	538	486,377,588	4,164	6,296

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PUBLIC WORKS PROJECTS IN CONSTRUCTION

	Initiated during month	COST (fire)	Completed during month	COST (fire)	In progress during month	COST (fire)
Schemes of Military Priority						
	94	12[illegible],132,000	8	4,630,000	136	642,289,000
	29	180,556,000	6	8,327,000	75	302,903,110
	63	302,688,000	14	12,957,000	639	953,192,110
Schemes other than of military priority (but for which approval AC/A&G was required)						
	341	1,193,024,342	43	32,611,500	357	1,652,279,304
	129	729,521,000	11	5,585,000	371	95,891,753
	778	872,853,072	30	8,964,258	814	1,578,161,113
	194	78,572,682	10	1,238,100	40	26,906,257
	66	6,841,954	10	7,252,258	17	118,174,780
	355	460,927,957	61	61,725,[illegible]1	491	729,950,644
	2	3,207,500	2	820,000	1	40,000
	76	353,[illegible]1,880	26	17,213,859	115	200,[illegible]3,209
	130	47,832,926	28	12,722,000	96	37,621,460
	37	66,802,902	1	2,200,000	94	102,196,697
	2,129	3,793,217,795	242	152,364,636	2,696	4,602,377,15[illegible]
Schemes handled independently by Training Age cies						
	82	35,379,223	10	23,170,300	50	87,628,727
	119	21,[illegible]11,201	27	32,[illegible]2,323	282	94,[illegible]73,972
	200	52,068,932	46	97,861,[illegible]8	400	258,170,872
	30	3,928,000	74	92,656,886	171	148,477,868
	146	23,305,[illegible]19	65	28,[illegible]3,732	332	72,[illegible]5,011
	5	2,300,000	22	42,[illegible]5,122	30	21,427,923
	1	120,000	--	--	17	1,970,770
	16	1,634,000	--	--	50	6,111,242
	598	153,[illegible]01,083	282	318,055,922	1,[illegible]27	[illegible]51,[illegible]5,[illegible]03
	2,790	1,250,[illegible]10,590	528	186,377,365	4,[illegible]	[illegible],291,105,733

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Table "B"

Statistics regarding Oil Refineries and Storage Installations for Petroleum Products in Italy

Key: Abruzzi - Abruzzo - Apulia - Puglie - Basilicata - Calabria - Campania - Emilia - Friuli - Venezia Giulia - Latium - Lazio - Liguria - Lombardy - Lombardia - Marches - Marche - Molise - Piedmont - Piemonte - Sardinia - Sardegna - Sicily - Sicilia - Tuscany - Toscana - Umbria - Venetia - Veneto - Total - Totale - Vittorio - Venezia Giulia - Zara

Statistics of Refineries

1 Status before Sept.	2 Total (col. 1 & 2 added)	4 Capacity (In thousand Litres)	5 Capacities destroyed by 31 Dec. 1945	6 Capacities undestroyed 31 Dec. 1945
Refineries done by Axis powers:				
up to 50,000 litre	11,999	374,092	8,667	4,325
from 50,000 to 150,000 litre	7,225	821,396	3,852	4,373
from 150,000 to 300,000	2,130	556,116	1,678	1,464
from 300,000 to 1,000,000 litre	770	445,922	311	459
over 1,000,000 L.	140	268,215	44	119
Total	22,669	2,475,741	14,052	10,857
Refineries done by Axis civilian:				
up to 50,000 litre	8,472	197,334	6,936	1,431
from 50,000 to 150,000 litre	2,422	204,119	1,535	770
from 150,000 to 300,000 litre	793	159,665	256	357
from 300,000 to 1,000,000 litre	379	210,947	103	344
over 1,000,000 L.	126	358,937	15	124
Total	12,992	1,132,002	8,945	3,426
Grand Total	35,661	3,607,743	22,998	14,283

Statistics of Storage Installations

1 Status before Sept.	2 Total (col. 1 & 2 added)	4 Capacity (In thousand Litres)	5 Capacities destroyed by 31 Dec. 1945	6 Capacities undestroyed 31 Dec. 1945
Storage done by Axis powers:				
up to 50,000 litre	1,438	37,837	1,438	0
from 50,000 to 150,000 litre	1,081	84,326	1,081	0
from 150,000 to 300,000	608	134,744	608	0
from 300,000 to 1,000,000 litre	67	39,897	67	0
over 1,000,000 L.	34	45,153	34	0
Total	3,218	342,957	3,218	0
Storage done by Axis civilian:				
up to 50,000 litre	55	8,047	55	0
from 50,000 to 150,000 litre	428	40,000	428	0
from 150,000 to 300,000 litre	68	14,447	68	0
from 300,000 to 1,000,000 litre	13	6,199	13	0
over 1,000,000 L.	39	12,371	39	0
Total	3,507	37,213	3,507	0
Grand Total	6,725	380,170	6,725	0

Courtesy of Petroleum Administration for War, New York

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Table No. 1 - Continued

1	2	3	4	5	6
Size of holding	Number of holdings before Settlement	Total Area (Ha.)	Assessed value (In thousand Rupees)	Number of holdings as on 31 Dec. 1945	Net Increase (+) or decrease (-)
Upto 50,000 litre	11,390	32,637	376,092	3,647	4,178
50,000 litre to 100,000 litre	7,255	8,328	821,384	3,955	4,373
100,000 to 300,000	2,236	2,744	556,116	1,176	1,226
300,000 to 1,000,000 litre	770	837	445,922	311	426
over 1,000,000 litre	345	165	268,635	44	119
Total	21,886	24,897	2,470,141	11,953	10,854
Holdings above Rs. 10,000 assessed value					
Upto 25,000 litre	8,472	6,267	167,434	6,936	1,633
25,000 to 50,000 litre	2,222	2,562	201,119	1,235	770
50,000 to 100,000 litre	793	915	105,665	356	537
100,000 to 300,000 litre	279	447	74,874	105	344
over 300,000 litre	124	139	56,617	15	124
Total	11,892	12,371	1,183,609	8,945	3,426
Grand Total	33,621	37,278	3,653,750	22,898	14,280

Compiled from Consolidation Register

Increasing total	Total this month	New total	1,453
340	157	595	
148	2	108	
-	-	87	

Working Consolidations
Applications
Consolidations completed

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ELECTRICAL DIVISION

ITALY

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2	Generation and Transmission	8
3	Power Allocation	10
4	Rates	11
5	Supplies	11

1. Advisory Committees.

The Regional Advisory Committees, comprising Sicily, Sardinia, Southern, Central and Northern Italy are not holding monthly meetings under acting chairmen who are members of the respective committees.

The Ministry of Public Works is preparing a decree for publication which will fix the responsibilities, membership and chairmen of the National and Regional Advisory Committees on Electric Power. When the decree goes into effect the committees will be empowered to initiate, study, develop and correlate long range programs in connection with the electric power industry for the advice and guidance of the Italian Government.

2. Generation and Transmission.

(a) Southern Italy

Lowered reservoirs storage at the Silla plants and a reduced supply of fuel oil to the Capuano generating station combined to force the curtailment of electricity production in Southern Italy during the month. However, as a result of some rain, and the restriction of consumption, the Silla reservoirs at the end of September were about 10% higher than foreseen in June 1945.

The peak load on the Southern Italy system was reached as much as 168,000 KW as against the allocation of 155,000 KW. This over load on the system results in a corresponding lowering voltage and a drop in frequency from a normal of 45 cycles. When this occurs, it is necessary to disconnect circuits and loads to reduce the overload.

Arrangements were finally made during the month whereby the quantity of oil furnished for the October production at Capuano will be about the same as for September.

Previous to last August, the fuel oil for this plant was supplied from military stocks. Since that time it has been furnished from civilian stocks on an allocated basis. The August total allowable was 2,625 tons made up of 1,200 tons stock on hand as of August 1st plus an allocation of 2,625 tons. The September

1 Advisory Committees 6
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1. Advisory Committees.

The Regional Advisory Committees, comprising Sicily, Sardinia, Southern, Central and Northern Italy are now holding monthly meetings under acting chairmen who are members of the respective committees.

The Ministry of Public Works is preparing a decree for publication which will fix the responsibilities, membership and chairmen of the National and Regional Advisory Committees on Electric Power. When the decree goes into effect the committees will be empowered to initiate, study, develop and correlate long range programs in connection with the electric power industry for the advice and guidance of the Italian Government.

2. Generation and Transmission.

(a) Southern Italy

Lowered reservoirs storage at the Silo plants and a reduced supply of fuel oil to the Capuano generating station combined to force the curtailment of electricity production in Southern Italy during the month. However, as the result of some rain, and the restriction of consumption, the Silo reservoirs at the end of September were about 12% higher than forecast in June 1945.

The peak load on the Southern Italy system was reached as much as 168,000 KW as against the allocation of 155,000 KW. This over load on the system results in a corresponding lowering voltage and a drop in frequency from a normal of 45 cycles. When this occurs, it is necessary to disconnect circuits and loads to reduce the overload.

Arrangements were finally made during the month whereby the quantity of oil furnished for the Peterer production at Capuano will be about the same as for September.

Previous to 1st August, the fuel oil for this plant was supplied from military stocks. Since that time it has been furnished from civilian stocks on an allocated basis. The August total allowable was 2,625 tons made up of 400 tons stock on hand as of 1st August plus an allocation of 2,225 tons. The September allowable was cut to 2,000 tons with indications of a possible further reduction due to critical shortage of FOL in the theatre. However, upon representations of this Sub-Commission, [illegible] 4464

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District # 3 the regular October allotment was made the same as for September; namely 2,359 tons. A special non recurring allotment of an additional 446 tons was made only for October to allow for extra generation at the Capuano steam plant made necessary in connection with the relocation of a high tension transmission line being carried out in the vicinity of an airport near Naples.

The 200 tons of fuel oil regularly allocated each month to the Volturno Diesel plant in Naples has not been affected. This plant is used for helping on peak loads and in case of interruptions on the transmission lines serving the Naples area.

The power now allocated to the Naples area is supplied from two main sources i.e. the thermal plants in Naples and one high tension line supplying hydro-electric power from the South to transformers which are now loaded to maximum capacity. Consequently any reduction in fuel oil to the thermal plants will critically effect the electricity supply in that important area.

The Rescara-Archi 150,000 volt transmission line under repair for several months, is now ready for service. It will connect with the Terni-Rescara line scheduled for mid November, and will provide the first means of transferring energy from Central to Southern Italy.

The high voltage line, now being repaired, between Archi and Naples, ultimately will supply electricity from Central Italy. The actual date of initial operation depends upon the repair of a 25,000 KVA transformer at Naples, estimated to be ready by the end of December. Any power transmitted over this line from Central Italy will have to be at 50 cycles.

The Isto generating station began operation during this month. This plant is almost entirely new. It uses the water supply of the old Isto plant, entirely destroyed by the Germans. It contains one 5,250 KW unit moved from Antesa I and because this unit was built to operate on a head less than the original Isto plant, it was installed along the penstock, in a new building about 100 meters above the old plant site.

(b) Central Italy

Attention during the month continued to be focused upon transmission and transforming facilities. Work on the Terni Company line between Central and Southern Italy is behind scheduled due to deficiencies in the early stages of this work. Transportation is now available and an officer of this Sub-Commission has been placed on this project to expedite the work and it is anticipated that the line will be operating by mid November.

29,000 KVA of transformer capacity, capable of supplying 10,000 volt distribution circuits from the 30 and 60,000 volt transmission systems went into service in the Florence-Valdarno system. In addition to the output from local generating plants this area is presently receiving about 60,000 kilowatts from North Italy.

In the Bologna area the 30,000 volt Cotignola-Ravenna, and the 15,000 volt Cesena-Rimini transmission lines were placed back into service during the month, easing the power shortage which existed there prior to combat operations last spring.

The fourth and last 35,000 kilowatt unit at Galleto (Terni)

Volturno Diesel plant in Naples has not been affected. This plant is used for helping on peak loads and in case of interruptions on the transmission lines serving the Naples area. The power now allocated to the Naples area is supplied from two main sources i... the thermal plants in Naples and one high tension line supplying hydro-electric power from the South to transformers which are now loaded to maximum capacity. Consequently any reduction in fuel oil to the thermal plants will critically affect the electricity supply in that important area.

The Pescara-Larchi 150,000 volt transmission line under repair for several months, is now ready for service. It will connect with the Terni-Pescara line scheduled for mid November, and will provide the first means of transferring energy from Central to Southern Italy.

The high voltage line, now being repaired, between Larchi and Naples, ultimately will supply electricity from Central Italy. The actual date of initial operation depends upon the repair of a 25,000 KVA transformer at Naples; estimated to be ready by the end of December. Any power transmitted over this line from Central Italy will have to be at 50 cycles.

The Isete generating station began operation during this month. This plant is almost entirely new. It uses the water supply of the old Isete plant, entirely destroyed by the Germans. It contains one 5,250 KW unit moved from Matese I and because this unit was built to operate on a head less than the original Isete plant, it was installed along the penstock, in a new building about 100 meters above the old plant site.

(b) Central Italy

Attention during the month continued to be focused upon transmission and transforming facilities. Work on the Terni Company line between Central and Southern Italy is behind scheduled due to deficiencies in the early stages of this work. Transportation is now available and an officer of this Sub-Commission has been placed on this project to expedite the work and it is anticipated that the line will be operating by mid November.

29,000 KVA of transformer capacity, capable of supplying 10,000 volt distribution circuits from the 30 and 60,000 volt transmission systems, went into service in the Florence-Volturno system. In addition to the output from local generating plants this area is presently receiving about 60,000 kilowatts from North Italy.

In the Bologna area the 30,000 volt Cotignola-Ravenna, and the 15,000 volt Cesena-Rimini transmission lines were placed back into service during the month, easing the power shortage which existed there prior to combat operations last spring.

The fourth and last 35,000 kilowatt unit at Galleto (Terni) still under repair, is expected to be ready for service about middle of November. Because of the increased electricity requirements in Southern Italy, most of the available output of this Galleto unit will probably be utilized there, rather

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than in Central Italy. As the fall season advances, additional electricity is estimated to become available, through the repair of other plants as well as from increased rainfall. Requirements are likely to increase at a greater rate however, and the electricity shortage is expected to last in Central Italy, at least until 1st March.

The present requirements on the Central Italy Grid, exclusive of the Florence-Leghorn areas, is represented by a peak load of 162,000 kilowatts, reached in September. The maximum was 155,000 kilowatts during the previous month.

(c) Northern Italy

The electricity requirements of Northern Italy are continuing to increase rapidly. In the Piemonte Region, the peak load has risen from 165,000 kilowatts in May to 405,000 kilowatts, during the week of 20 September.

Corresponding increases are occurring throughout the other areas of North Italy.

3. Power Allocations.

Representatives of this Sub-Commission attended the regular monthly meeting of the Electric Power Committee of the A.F.I.I.H. (I) B. and supplied information on power availability.

Since the A.F.I.I.H. (I) B. has under consideration the discontinuance of its committees and in view of the critical electricity supply in Central and Southern Italy, the Electric Power Committee recommended that it continue to function in its present capacity, or a similar committee under military control be constituted, representing the military agencies concerned, to allocate electric power in Central and Southern Italy and in conjunction with Headquarters A.C. insure that all military demands for electric power are met.

The life of this new committee would be dependent upon the duration of military necessity.

No additional allocations were allowed for Southern Italy for the month of October. The slight improvement from fall rains is one will be needed to supply loads which are being curtailed at the present time. The allocations for October for Southern Italy totaled 155,000 KW of demand and 80 millions of KWH and have remained practically unchanged through July, August and September of this year.

For Central Italy including Florence-Leghorn area an additional 16,500 KW of demand and 7.4 million KWH were allowed for October bringing the total allocation for Central Italy to 240,000 KW and 129,75 million KWH. The increases occurred in the Leghorn and Florence areas which are now obtaining their power largely from Northern Italy and from generating plants within the Florence and Leghorn areas.

For Northern Italy the available capacity at the generating plants and on the transmission systems is adequate to meet the demands, however, trouble is being experienced on the local transmission lines caused by overloading of distribution cables and transformers brought about by using electric power for heating and cooking, a domestic service formerly fulfilled by artificial gas. The restoration of gas service will alleviate the situation when sufficient coal is allocated to the gas plants to permit

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1st March.

The present requirements on the Central Italy Grid, exclusive of the Florence-Leghorn area, is represented by a peak load of 162,000 kilowatts, reached in September. The maximum was 133,000 kilowatts during the previous month.

(c) Northern Italy

The electricity requirements of Northern Italy are continuing to increase rapidly. In the Piemonte Region, the peak load has risen from 165,000 kilowatts in May to 205,000 kilowatts, during the week of 20 September.
Corresponding increases are occurring throughout the other areas of North Italy.

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No additional allocations were allowed for Southern Italy for the month of October. The slight improvement from fall rains is said will be needed to supply loads which are being curtailed at the present time. The allocations for October for Southern Italy totaled 155,000 KW of demand and 80 millions of KWH and have remained practically unchanged through July, August and September of this year.

For Central Italy including Florence-Leghorn area an additional 16,500 KW of demand and 7.4 million KWH were allowed for October bringing the total allocation for Central Italy to 240,000 KW and 129,75 million KWH. The increases occurred in the Leghorn and Florence areas which are now obtaining their power largely from Northern Italy and from generating plants within the Florence and Leghorn areas.

For Northern Italy the available capacity at the generating plants and on the transmission systems is adequate to meet the demands, however, trouble is being experienced on the local transmission lines caused by overloading of distribution cables and transformers brought about by using electric power for heating and cooking, a domestic service formerly fulfilled by artificial gas. The restoration of gas service will alleviate the situation when sufficient coal is allocated to the gas plants to permit resumption of operations. Gas supply on a limited basis is expected to commence about mid November.

It is expected that the electricity supply situation in North Italy will be further aggravated if, this winter, certain industries are reactivated which, in the past, have operated during the periods when electricity was in good supply.

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1614

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4. Estimates.

All requests for rate adjustments for electricity, water and gas will be considered by this Sub-Commission, after first having been forwarded to the North Italy Petroleum Products Allocation Board, Milan, for action.

Requests for rate adjustments in Germany controlled by the Internationalized Area Commission in this respect will be forwarded to the appropriate Commission for action.

5. Gasoline.

The supply officer of the Sub-Commission continues to exercise the authority delegated to him under Allied Military Government Proclamation No. 2, dated 25 April 1945, and Civilian Supplies Ordinance No. 1, dated 26 May 1945, and Civilian Supplies Ordinance No. 2, dated 26 May 1945, and Civilian Supplies Ordinance No. 3, dated 26 May 1945, and Civilian Supplies Ordinance No. 4, dated 26 May 1945, and Civilian Supplies Ordinance No.

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REGIONAL REPORTS

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Piemonte	15
Lombardia	15
Venezia	15

The number, cost, and status of all projects in the several regions are included in the Summary Tables on pages: 5, 6, & 7.

LIGURIA - (Regional Engineer: Lieut-Colonel F. S. L. LEE, R.E.)

General

It is of interest to note that since the division was reorganised at the end of July 1945 nearly four thousand public works projects have been screened, checked and approved.

A large number of projects have been initiated for the relief of unemployment, particularly in those areas where no means of transport exists to convey workers from their homes. The schemes that have been put in hand for the most part consist of those providing the maximum amount of manual labour, but steps have been taken to include projects that will also give employment to local tradesmen and craftsmen.

Although over hundred and thirty projects for debris removal were approved during the month, the general work of this section is definitely in the second phase.

Public Works.

Roads and Bridges

The work in this section has progressed very favourably almost all the damage on State Roads has been put in hand and a considerable number of the projects are well advanced.

The work on resurfacing of the main roads through the larger towns is progressing and considerable progress has been made at Savona and in Spezia.

The city of Genoa is commencing a large programme of road work for the relief of unemployment, and this in conjunction with the projects for the repair and rehabilitation of public services will provide useful work for a large number of men.

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Liguria 12

Piemonte 13

Lombardia 15

Venezia 15

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Ports

Work of repairs to ports has continued with steady progress and 4/5ths of the work authorised up to the end of August is now under way.

During September projects previously approved have now been commenced

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at Genoa, Savona, Taranto and La Spezia for 1,58, 98, 60 and 28 million Lire respectively.

OEWG

Clearance and debris removal work has shown a noticeable difference this month and nine clearance in two ports now plows nearly 2/3 of the port to be used by shipping.

HARBOR

89 out of the 96 million Lire approved for current is for the repairs to the 3 large breaches in the breakwater and reconstruction of a deep water quay in zones 14-15-16. This work will take 6 to 12 months to complete.

Housing

The work in connection with the Italian Housing Decree # 305/1945 has progressed satisfactorily and committees are now at work in all provinces. Of the 144 committees that are required in the region, 108 are now organised and operating, and 80 have already applied for funds.

The number of projects for which funds have been requested is over six thousand and nearly twelve thousand additional schemes have been initiated and will be entitled to advances as work progresses.

It can therefore be said that nearly 18,000 projects are in hand at an approximate cost of 1,500 million Lire.

Electricity

Negotiations regarding arrangements for the supply and payment of power by the Italian Companies to the French have been continued, and the latter is now in the hands of higher authority.

Gas Works

Resulting from our application for coal for the gas works in this region a small allocation has been received for the heating season.

ENGINEERING - (Regional Engineer: Col. C. L. [illegible], C.B.E.)

General

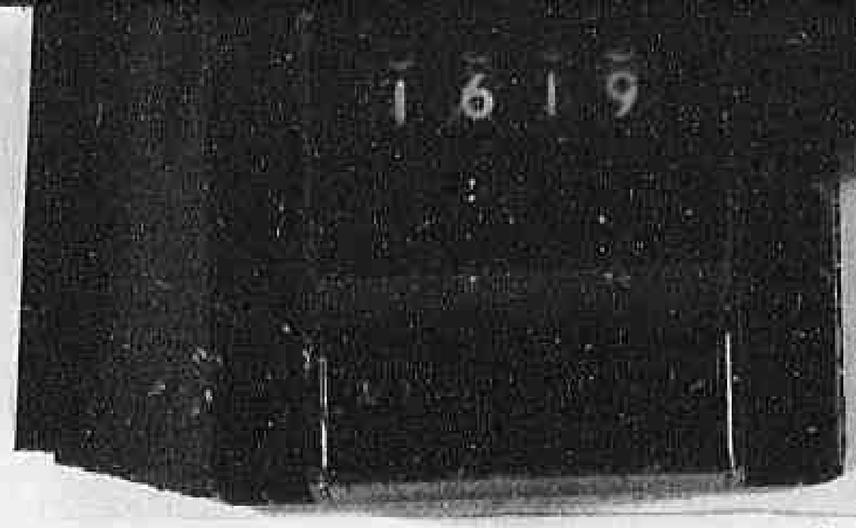
The high level of activity reached by the Public Works and Utilities Division during August was maintained in September. During the month there were received 352 projects with an estimated value of Lire 1,612,247,157.

Within the Division operations have been keyed to closing. All records are up to date and files are ready for turning over. At the request of the Regional Commissioner the civilian staff has been reduced and equipment not absolutely required has been turned in.

Public Works

Highways and Bridges

Work on all of the most vital projects is progressing satisfactorily. All State road interruptions are covered by either temporary or permanent reconstruction projects. In some cases there are temporary



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Road resurfacing and repair have been restricted in scope by lack of material. Toward the end of the month some 200 tons of bitumen were released from the Caloosazzo dump and are expected in Piemonte shortly.

All major interruptions on provincial and communal roads are in hand and work is progressing. Resurfacing is a different story. Inability to obtain bitumen for these roads makes repairs impossible and the fact that they have been without maintenance for five years or longer aggravates the situation.

Housing

Housing committees have become more active. As of the close of the month there were 199 committees active in Piemonte Region. Only one province, Novara, had failed to start activity. In addition to the active committees there were a number which were in what might be called the formative stage. There were 1,402 projects in hand valued at more than 126 million Lire.

Electricity

In Piemonte there were 18 cases of war damage to electric power plants; 14 have been repaired. There were 981 power line breaks; 880 have been repaired. The capacity of the damaged generating plants was 185,000 KW and repairs have restored 162,000. Since two plants generating a total of 9,000 KW were damaged beyond repair, it remains that there is only 12,000 KW of generating capacity on which repairs have to be made. This indicates in a general way, the situation at present. The electric generating and distributing system of Piemonte is in extremely satisfactory condition and further repairs and improvements may be left to the civilian management of the companies without hesitation.

Gas

Despite the fact that every effort has been made to present to the proper authorities the gas companies' coal requirements, the situation still is far from satisfactory. An allotment of coal has been received but it is not known whether this is for pre-heating.

Water

The water supply of Piemonte is satisfactory. Bids have been opened, contracts awarded and work started on some of the projects approved in the recent past.

Transport

Transport for the Genio Civile is an important problem. During the month, two trucks were released from the Fiat factory for the Genio Civile and sixteen more have been requested.

Fuel

The control over POL issues was transferred during the month to UNRRA, as anticipated in the last monthly report. Close supervision was maintained, however.

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Housing

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Tyres

1477

Tyres for snow removal equipment have not been found. The problem has been placed before the LCRE with the suggestion that he continue efforts to obtain this equipment before heavy snowfalls come.

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LOMBARDIA - (Regional Engineer: Col. C. F. MORTON, F.A.)

General

The large volume of projects presented for approval was maintained during the greater part of the month. At present, approval of projects is being limited to those for works which are really urgent and cannot await submission to Italian Ministry of Public Works.

There has been an improvement in the work of Housing Committees for Milan City and as evidence of a definite approach to the housing problem some 250 private houses are in course of repair. Work to Case Popolari, approved by A.C., continues well.

Public Works

There has been a general improvement in the placing of contracts and the physical initiation of works approved.

Electricity

The electric power situation for Lombardia Region is favourable except in the City of Milano.

The electric distribution system in Milano is overloaded and there have been many local interruptions of service and failures of transformers and other distribution equipment. The power companies have been unable to obtain transformers and cables to reinforce their distribution systems.

Gas

The pre-heating of the ovens in the Milano Gas Plants has been started. Fuel will be supplied for the pre-heating of several smaller gas plants in the region during the month of October.

VENEZIA - (Regional Engineer: Major W. KNIGHT, A.C.)

General

It is considered that the most urgent and necessary works have now been approved and there should be sufficient work in hand to give the maximum of employment during the winter months. The Genio Civile who have concentrated on the preparation of the numerous projects that have submitted, have been told that they must now concentrate on getting these projects into operation and thus put as many people employed as possible.

During the month, close contact has been kept with the Magistrato alle Acque on all matters of future policy when the final handing over takes place.

Public Works

Several more projects have been approved for clearing up debris in the badly damaged provincial towns of Verona and Treste. During the month, numerous projects have been approved for repairs to schools. It is hoped that the larger part of these will be ready for the coming term.

Harbours

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Public Works

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Highways

4476

Projects requested by the Army and 15 Corps Area for seal-coating and resurfacing are now under way. There was a slight hitch in the work of seal-coating due to the Army failing to collect and deliver the necessary material.

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Brigden

The Brigden Bridge over the River Darling on route 13 is expected to be open to two-way traffic by the end of September. The bridge over the River Murray on route 17, is now under construction with one army added to existing relief.

Menindee Storages

The work of reconstruction under the Housing Decree is making steady but slow progress. One of the retarding features is the apparent difficulty in obtaining timber, wattle and sticks. In this respect, there seems every prospect that an improvement may take place in the month of October. There have been several cases where apparently the Mayors of Communes have made little effort to form their Committees, and every effort has been made to convey to those people the responsibility that is theirs in getting to work under the Decree.

Boating - Irrigation - Flood Control

The work of repairs to irrigation canals and river banks is going ahead, sufficient funds now having been made available for the complete repairs to be undertaken.

Electricity and Utilities

Supply of electricity remains normal. Repairs to the gas works, Renmark, are submitted now to hand for approval. The project of repairing the water main engine water towers at Morgans is now completed.

E. J. HOLMES,
Colonel, C.E.,
Director.

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

22 September 1945.

MONTHLY REPORT - AUGUST

SEP 22 1945

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SUMMARY

PUBLIC WORKS DIVISION.

Highways and Bridges.

Every effort is being made to effect a complete turnover of military highway maintenance to Italian Agencies on 1 October 1945. Military Units are gradually withdrawing assistance previously rendered to Contractors, particularly in transport and materials. General direction of the program will continue by Officers of this Sub-Commission. Bitumen supplies are still critically short. Accumulative figures reflect that 1932 bridges had been completed in Italy by the end of August.

Highway Machinery and Equipment.

Satisfactory progress was made in transfer of items of machinery and transport from this Sub-Commission to the Ministry of Public Works. Approximately 50 additional trucks were received during the month for use by the Ministry of Public Works. Final arrangements have been made for a complete turnover of operation of all equipment, shops and machinery maintenance facilities to the Italians on 1 October, with representatives of the Sub-Commission to function in an advisory capacity only.

Housing.

Reports from Compartments through Italian channels reflect that progress in rehousing under existing decrees is not entirely satisfactory. Reports from Regions on program in A.M.G. Territory are similar. A housing Engineer Officer has been attached to Sub-Commission Headquarters to work directly with Ministry Officials in an effort to expedite the entire program.

Handover of Territory to Italian Government.

The uncertainty of the date of closing of four operating Regions has caused some confusion in operations but projects are still being approved. Every effort has been made to approve, schedule and finance an adequate works program in each critical area to ensure that all vital reconstruction is initiated and the maximum of employment is provided. Loss of Officer personnel through redeployment has not seriously affected operations.

ELECTRICAL DIVISION.

Advisory Committees.

Each of the five Regional Advisory Committees on Electric Power, Sicily, Sardinia, Southern, Central and Northern Italy is now operating under an acting Chairman, who is a committee member designated by the Electrical Division.

In collaboration with the Inspector General of Electricity, Water and Gas of the Ministry of Public Works, Italian Government, it is expected within the next month that the membership of all Advisory Committees, both Regional and National, will be fixed and permanent chairman appointed.

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Power Allocations.

The regular monthly meeting of the Electric Power Committee A.F.L.L. (I) B. was attended by representatives of this Sub-Commission.

No additional power was allocated for Southern Italy for the month of September 1945 as the supply still remains critical and unchanged from the previous month. Allocations were 155,000 KW. of demand and 80,000,000 Kwh. of energy. The curtailment of civilian and military usage of power will be required through September and part of October 1945. The contemplated curtailment of fuel supply to the Capuana Steam Plant, which supplies 10% of the power to Southern Italy, will further aggravate the situation. This Sub-Commission is making a study of the power supply for Southern Italy in order to show the results of curtailing the oil supply to Capuana.

For Central Italy all demands put forward were met. Allocations were 209,000 KW of demand and 113,450,000 Kwh of energy. This represents an increase of 13,000 KW of demand and 6,350,000 Kwh over August allocations.

In Northern Italy the power supply remains satisfactory and no allocation of power was considered necessary for the month of August.

Nera Montoro Chemical Works - Central Italy.

On the recommendation of this Sub-Commission an allocation of 15,000 KW was made to the Terni Chemical Works at Nera Montoro, producing badly needed chemicals and fertilizers, since the actual load on the system in Central Italy only totaled 170,000 KW against an allocation of 196,200 KW in August. Operation began early in September.

The plant will be disconnected, wholly or partially as necessary, if the connecting of other loads, already authorized, causes the system to become overloaded.

Transport for Electrical Companies.

The electric companies are still unsuccessful in obtaining transportation from E.N.A.C. sources. The Italian Ministry of Public Works has endeavourd to obtain transport from the Ministry of Transportation. Intensive efforts have resulted so far in five trucks being furnished.

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PUBLIC WORKS DIVISION

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1. Highways and Bridges.

Every effort is being made to effect a complete turnover of military highway maintenance to Italian Agencies on October 1st, 1945. This is in accordance with requests received from Military Districts and Peninsular Base Section. These Military Units are gradually withdrawing assistance, principally in transport and materials; which had previously been rendered to Contractors. It is planned to care for the transport problem by careful allocation of the approximately 200 trucks which have been made available to the Ministry of Public Works and by full utilization of A.M.G.C. facilities. General direction of the Military Highway program will be continued by Officers of this Sub-Commission. Bitumen supplies continue to be critically inadequate particularly on roads of civil importance only. Sufficient supplies of bitumen are stored for subsequent months but deliveries cannot be expected before early October. Accumulative figures reflect that 1932 bridges had been completed throughout Italy by the end of August.

2. Highway Machinery and Equipment.

Satisfactory progress was made in transfer of items of machinery and transport from this Sub-Commission to the Ministry of Public Works. Approximately 50 additional trucks were received during the month for use by the Ministry of Public Works and are now being proposed for allocation. Some repairs are necessary to all vehicles. Final arrangements have been completed for a complete turnover of operation of all equipment, shops and machinery maintenance facilities on 1 October with representative of this Sub-Commission to function in an advisory capacity only. This Highway Equipment Section of the Sub-Commission has been functioning for approximately 5 months and has now reached the point when it is believed the responsibility can be turned over to Ministry representatives.

3. Housing.

Reports received from Compartments through Italian Channels reflect that progress in rehousing under existing decrees is not entirely satisfactory in some regions. It is believed that stronger direction and coordination at Ministerial level can do much to remedy the situation. A Housing Engineer

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4. Handover of Territory to Italian Government.

The uncertainty of the date of closing the four operating Regions has caused considerable confusion in operation but projects of all types are still being approved. Every effort has been made to approve, schedule and finance an adequate works program in each critical area to ensure that all vital reconstruction is initiated and the maximum of employment is provided. This program is now assured, whith only a few critical projects remaining to be reviewed and approved. Ministry of Public Works officials at Regional and Provincial levels have generally demonstrated the ability to carry-on after immediate direction is removed with the withdrawal of Engineer Officers.

5. Attached are tables showing present status of work projects :-

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PUBLIC WORKS PROJECTS IN AUGUST

	Initiated during month	C O S T (Lire)	Completed during month	C O S T (Lire)	In progress during month	C (
TABLE "A"		Schemes of Military Priority				
Roads	97	362,263,500	7	1,460,000	107	4
Bridges & Retaining Walls	39	204,428,110	2	17,186,500	52	1
TOTAL	136	566,691,610	9	18,646,500	159	5
TABLE "B"		Schemes other than of military priority (but for which approval AC/[illegible] was required)				
Roads	311	710,05[illegible],673	56	15,670,663	330	7
Bridges & Retaining Walls	194	133,113,500	18	5,081,000	291	5
Public Buildings, Schools, etc.	435	1,007,460,975	18	4,622,597	347	9
Debris Rem. & Miscell.	117	117,578,130	9	11,156,497	183	1
Water Works, Sewers & Flood Control	282	273,970,723	63	39,114,274	402	4
Housing	26	22,780,190	9	3,305,120	32	
TOTAL	1,365	2,264,759,661	173	78,950,151	1,795	2,9
TABLE "C"		Schemes handled independently by Italian Agency				
Roads	63	29,360,376	21	20,681,457	193	1
Bridges & Retaining Walls	6	9,395,250	11	16,403,429	52	
Public Building, Schools, etc.	223	78,732,455	112	80,110,845	300	2
Debris Removal	21	52,068,939	12	24,273,324	201	2
Water Works, Sewers, & Flood Control	166	24,332,017	39	7,642,780	216	
Housing	2	1,340,000	19	13,423,202	50	
TOTAL	321	195,228,339	244	162,534,837	1,013	8
GRAND TOTAL	2,022	3,026,683,610	426	260,131,488	3,047	4,3

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PUBLIC WORKS PROJECTS IN AUGUST

	Initiated during month	C O S T (Lire)	Completed during month	C O S T (Lire)	In progress during month	C O S T (Lire)
			Schemes of Militar. Priority			
	97	362,263,500	7	1,460,000	107	419,146,064
	39	204,428,110	2	17,186,500	52	151,514,453
	136	566,691,610	9	18,646,500	159	570,660,517
			Schemes other than of military priority (but for which approval AC/AS was required)			
	311	710,05[illegible],673	56	15,670,6[illegible]	[illegible]30	726,275,282
	194	133,113,500	18	5,081,000	291	506,640,350
	135	1,007,460,975	18	4,622,597	327	996,274,476
11.	117	117,378,130	9	11,156,497	183	184,162,680
&	282	273,970,793	63	39,114,274	402	457,800,873
	26	22, 780,890	9	3,307,120	52	12,991,500
	1,365	2,364,759,661	173	78,9[illegible]0,191	1,792	2,954,145,251
			Schemes handled independently by Italian Agency			
	63	29,360,[illegible]76	21	20,681,457	193	115,131,865
	6	9,395,[illegible]10	11	16,403,[illegible]29	53	75,289,[illegible]14
	223	78,73[illegible],455	112	80,110,845	380	271,943,627
	61	52,0[illegible],939	12	24,273,324	201	216,034,672
	166	24,332,017	39	7,642,780	216	63,420,048
	2	1,340,000	19	13,123,202	50	98,170,000
	521	195,2[illegible]2,339	244	162,534,837	1,093	842,290,156
	2,022	3,326,683,610	426	260,[illegible]11,488	[illegible],047	4,367,09[illegible],924

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PUBLIC CRKS PROJECTS IN ITALIAN COVERNMENT TERRITORY FOR THE MONTH OF AUGUST 1945

TYPE OF PROJECTS	Works initiated during month	C O S T (Lire)	Works completed During month	C O S T (Lire)	Works in progress during month	C
TABLE "A"			SCHEDULE OF MILITARY NECESSITY			
Roads	24	60,089,200	58	142,496,800	180	69
Bridges	8	24,003,000	9	17,901,310	76	21
TOTAL "A"	32	84,092,200	67	160,398,110	256	91
TABLE "B"			CIVILIAN WORKS			
Roads	254	254,834,473	254	160,821,662	869	9
Bridges	212	334,078,399	179	113,652,472	752	1,3
Public Buildings	156	179,255,719	150	68,278,119	6	5
Schools	67	35,236,911	84	36,638,202	366	2
Churches & Charitable Inst.	95	33,116,145	89	36,252,633	328	3
Debris Removal, etc.	252	150,820,732	307	160,176,506	834	3
Aqueducts, Sewers	116	93,072,045	91	9,112,819	366	2
Hydraulic Works	114	76,911,078	60	28,436,800	257	7
Martime Works	44	82,126,116	37	25,434,385	119	2
Housing Repairs	1,283	410,225,840	441	99,837,765	1,870	1,0
Non Mess	16	20,799,342	75	40,937,898	234	7
TOTAL "B"	2,601	1,656,671,082	1,767	809,922,261	6,730	6
G. T. TOTAL (A & B)	2,633	1,740,763,282	1,834	970,397,491	6,986	7,7

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PUBLIC WORKS PROJECTS IN ITALIAN GOVERNMENT TERRITORY FOR THE MONTH OF AUGUST 1945

...CTS	Works Initiated during month	C O S T (Lire)	...orks completed During month	C O S T (Lire)	...orks in progress during month	C O S T (Lire)
			SCALES OF MILITARY PRIORITY			
	24	60,089,200	58	142,496,800	180	695,819,659
	8	21,003,000	9	17,901,340	76	215,577,000
	32	81,092,200	67	160,398,140	256	911,396,659
			CIVILIAN WORKS			
	254	254,834,473	254	160,821,662	869	951,262,699
	212	324,279,389	179	113,652,472	752	1,319,741,683
	156	179,255,719	150	82,278,119	655	594,814,147
	67	36,286,911	84	36,638,202	366	291,257,345
...able List.	95	33,411,142	89	36,352,633	328	320,219,590
...c.	252	150,820,732	307	160,176,506	834	385,805,091
	116	95,072,015	91	2,112,819	366	288,730,824
	114	76,911,078	60	23,436,800	257	739,265,228
	44	82,126,146	37	25,434,285	119	299,168,224
	1,263	410,622,840	441	99,857,765	1,870	1,018,724,903
	48	20,799,342	75	10,937,898	334	752,275,233
	2,601	1,656,671,082	1,767	809,999,251	6,730	6,871,811,467
...B)	2,633	1,780,763,282	1,834	970,397,401	6,886	7,783,248,126

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TABLE "C" SUMMARY OF REPORT ON PROGRESS OF REBUILDING WORKS

Province of: Agrigento - Ancona - Apuania - Arezzo - Ascoli Piceno - Avellino - Bari - Benevento - Brindisi - Cagliari - Caltanissetta - Campobasso - Caserta - Catania - Catanzaro - Chieti - Cosenza - Enna - Firenze - Foggia - Frosinone - Grosseto - L'Aquila - Latina - Lecce Livorno - Lucca - Macerata - Matera - Messina - Nuoro - Palermo - Perugia - Pesaro - Pescara - Pisa - Pistoia - Potenza - Ragusa - Reggio Calabria - Rieti - Roma - Salerno - Sassari - Siena - Siracusa - Taranto - Teramo - Terni - Trapani - Viterbo - Naples -

THIS REPORT COVERS THE MONTH OF AUGUST 1945

	1 Started before August.	2 Started during August.	3 Total Col. 1 & 2	4 Approx. cost (In thousand Lire.)	5 Completed by 31 Aug. 1945.	6 Balance underway 3 less 5
Projects done by the owners:						
up to 50,000 Lire	13,591	1,524	15,115	446,352	9,783	5,332
from 50,000 to 150,000 Lire	9,561	1,782	11,343	1,111,265	5,491	5,852
from 150,000 to 300,000 Lire	2,919	974	3,893	858,417	1,434	2,459
from 300,000 to 1,000,000 Lire	850	71	921	490,127	381	540
over 1,000,000 L.	147	24	191	320,448	54	137
TOTAL	27,068	4,375	31,463	3,256,609	17,143	14,320
Projects done by Genio Civile:						
up to 50,000 Lire	8,268	97	8,665	200,435	7,318	1,347
from 50,000 to 150,000 Lire	2,462	158	2,620	234,181	1,675	945
from 150,000 to 300,000 Lire	912	112	1,024	209,958	496	528
from 300,000 to 1,000,000 Lire	462	120	582	295,687	169	413
over 1,000,000 L.	143	14	157	402,373	39	118
TOTAL	12,547	501	13,048	1,346,629	9,697	3,351
GRAND TOTAL	39,655	4,876	44,511	4,603,238	26,840	17,671

COMMUNE COMMITTEES

	Preceeding total	Total this month	New total
Working Committees	505	117	622
Advisory Committees	108	24	132
Communes as yet requiring Committees			58

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ELECTRICAL DIVISION

ALLIED

Section	SUBJECTS	Page
1	Advisory Committees	8
2	Master Control	8
3	Power allocation	8
4	Nera Montoro Chemical Works - Central Italy	9
5	Italy Generation and Transmission	9
6	Rates	10
7	Transport for Electric Companies	10

1. Advisory Committees.

Consistent with established policy on turning back to the Italians, the Chief of the Electrical Division has relinquished the chair of the Advisory Committees on Electric Power for Sicily, Sardinia, Southern, Central and Northern Italy.

The Committees now operate under an acting chairman selected from the members present at the meetings by the Chief of the Electrical Division. He arranges to attend all meetings whenever possible.

By next month it is expected that the membership and chairmanship of all Regional and also the National Committees will be determined. This is being done in conjunction with the Inspector General on Electric Power, Water and Gas in the Ministry of Public Works.

2. Master Control.

The Central Italy Grid System operated at 50 cycles from the 17th August with very satisfactory results with the exception of the pumping units in the Pontine Marshes. The motors tended to overheat not only from increased frequency but also from low voltage which already existed in this area.

The low voltage condition is being rectified by the Utility Company and the manufacturers of the pumps are being called in to advise on the necessary mechanical changes which may have to be made to adapt the pumps to 50 cycle operation.

3. Power Allocation.

Representatives of this Sub-Commission attended the regular monthly meeting of the Electric Power Committee of the A.F.L.H. (I) B. and supplied information on power availability.

The allocation, for September for Southern Italy, remained the same as for August, namely 155,000 KW of demand and 80,000,000 KWh of energy.

2	Master Control	8
3	Power allocation	8
4	Nera Montoro Chemical Works - Central Italy	9
5	Italy Generation and Transmission	9
6	Rates	10
7	Transport for Electric Companies	20

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The allocation, for September for Southern Italy, remained the same as for August, namely 155,000 KW of demand and 80,000,000 KWh of energy. The power supply for this area is still critical and will remain so for September and part of October. The situation will only be eased by the advent of the rainy season and the completion of transmission lines now under repair between Central and Southern Italy.

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The contemplated curtailment of fuel supply to the Capuana Steam Plant, which supplies 10% of the power to Southern Italy will further aggravate the situation.

This Sub-Commission is now making a study of the power supply situation for Southern Italy for the remainder of the year 1945 in order to determine and present the effects of the fuel oil curtailment.

On the 10th of August a meeting was held by representatives of this Sub-Commission, Industry Sub-Commission, Ministry of Public Works, Ministry of Industry, Military District No 3 and Power Company officials to discuss methods of controlling and reducing power consumption by civilians in Southern Italy in order to make energy available for loads of higher priority. The conclusions of this committee were submitted to the Electric Power Committee, A.F.L.H. (I) B. by District No 3 which was charged with the responsibility of the meeting.

All power demands put forward, for September, for Central Italy, were met and totalled 209,000 KW of demand and 113,450,000 KWh of energy or an increase of 13,000 KW of demand and 6,350,000 KWh of energy over August allocations.

No allocations of power were considered necessary in Northern Italy for the month of September as the power supply remains satisfactory in that area.

4. Nera Montoro Chemical Works - Central Italy.

A conditional allocation of 15,000 KW was arranged for the Terni Chemical Works at Nera Montoro upon the recommendations of this Sub-Commission. This plant will produce urgently needed chemicals and fertilizers. This load can be served since the actual load on the Central Italy system only totalled 170,000 KW against an allocation of 196,200 KW in August.

If the connection of other loads, already authorized, causes the system to become over loaded the plant will be disconnected wholly or partially as becomes necessary.

This permits the utilization of reserve power on a restricted basis until other generating plants are repaired and increased output from operating plants is realized from stream flow plants as the result of fall rains.

5. Italy Generation and Transmission.

(a) Southern Italy

The power supply for Southern Italy remained unfavorable during August. Continued drought reduced the stream flow plant output to a minimum resulting in the Sila hydro plants and the Capuana steam plant being called upon to operate at the maximum. The periodic cutting of feeders, effecting both military and essential civilian services, was necessary in order to carry the load.

The Petroleum Section A.F.H.Q. advised that, due to a shortage of F.C.L., it would be necessary to reduce the allocations of fuel oil to the Capuana steam plant by 10%. This action will further aggravate the power supply in the Naples area.

The effect of this reduction has been brought to the attention of the Electrical Power Committee of the A.F.L.H. (I) B. with the recommendation that no reduction in the allocation of fuel

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(b) Central Italy

On 7th August 1945 a third 35,000 KW generating unit was put into operation. This is the third machine of the Galleto hydro plant which has been repaired during a period of about ten months. The capacity of this plant now totals 105,000 KW. The fourth and last unit of this plant is expected to be restored to operation in the early part of November of this year.
A second 120,000 Volt line connecting Northern Italy with the Florence area of Central Italy was completed during the month. The completion of this line makes a total of 5 high tension transmission lines, interconnecting North Italy with Central Italy, which have been restored since the liberation of the north. Approximately 60,000 KW of power is being transported to Central Italy from the North over these lines. It is expected to raise this power to approximately 70,000 KW when additional sub-station transformers are repaired. All of this power, operating at 50 cycles, is supplying the Florence-Pistoia-Leghorn area which was formerly furnished by making more power available in other Central Italy areas.
Work progressed on the repair of the 150,000 Volt transmission line from Central Italy to connect with Southern Italy.

(c) Northern Italy

The power supply situation in North Italy is generally satisfactory, however, the distribution systems in the larger cities are beginning to be overloaded as a result of domestic load requirements. This condition is a result of the lack of artificial gas for cooking and heating and is expected to become more acute when the cold weather sets in and until gas is made available.

6. Rates.

A number of electric and water distributing companies have filed applications for rate increases all of which have been turned over to the Italian Government for consideration and action in line with established policies on price control.

7. Transport for Electric Companies.

The electric companies are still unsuccessful in obtaining transportation from A.M.G.C. sources. The Italian Ministry of Public Works has endeavoured to obtain transport from the Ministry of Transportation. Intensive efforts have resulted so far in five trucks being furnished.

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REGIONAL REPORTS

ITALY

Reports submitted by the Regional Engineers are briefly summarized in the following pages :-

Region	Page
Naples Commune	11
Abruzzi	11
Liguria	13
Lombardia	14
Venezia	15

The number, cost, and status of all projects in the several regions are included in the Summary tables on pages: 5, 6, & 7.

NAPLES COMMUNE - (Public Works Officer: Mr. H. A. Townsend)

Electricity.

General situation improved. More lights installed in the city of Naples, Vomero and part of Arenella. In spite of troubles to get the oil necessary to run the Capuana Steam Generating Plant, the S.M.E. is trying its best to keep service normal. Recently it has been necessary to reduce the Capuana output while waiting for fuel assignment. This much has caused a reduction of above 30% in the supply of current for lighting purposes, transportation and industries; current shortage affects also military organizations, while railways, tramways and funiculars are unable to cope with the heavy traffic of passengers.

Gas.

The average daily production of gas during this month has been 113,700 cu.m. with a maximum of 11,000 cu.m. per hour on the 4th August.

Transportation.

The situation is getting drastic due to lack of electric power which has reduced tramway and funicular traffic to 70%. Automobile transportation is slightly better but still inadequate.

4483

PIEMONTE - (Regional Engineer: Col. C. P. BRICKETT, C.E.)

Public Works and Utilities.

Activities of the Public Works and Utilities Section reached a peak during the month of August. The Italian authorities were given a deadline for

Page

Naples Commune 11

Piemonte 11

Liguria 13

Lombardia 14

Venezia 15

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Public Works and Utilities.

Activities of the Public Works and Utilities Section reached a peak during the month of August. The Italian authorities were given a deadline for the submission of projects and as the deadline approached the projects flooded in. Originally the deadline was based on closure of this region, September 1st. The deadline now stands at September 15.

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Housing.

We can still say that housing progress is far from satisfactory. Many communes have been visited and the decree explained. But it seems that the reasons set forth in the last months report still hold. Shortage of materials and the fact that the sindaco's of the various communes are not aggressive enough to force the various yards to give up the material.

Highways.

On State roads, projects have been received and the majority of them approved on all but seventeen interruptions. Only one of these interruptions is a major one and projects are forthcoming. Repairs to the surfaces of routes 10, 11, 35, 35 bis, Autostrada, 25, 26, and 30 are in progress. On those routes which are not of AFHQ priority all materials are furnished by either the contractor or catrame (road tar) from CMLC4 is being used.

Provided the months of September and October do not bring unfavorable weather the network of roads will be safe for the following winter. Many bridges will not be permanently rebuilt, but there will be few interruptions on major provincial and state roads.

Water supply.

It was stated in the previous report that temporary water supply difficulties which occurred during, and in consequence of, the prolonged drought, especially in Turin, had virtually come to an end, largely on account of the change in the weather. The situation has since improved still further, to the extent that for several days past it has not been necessary to draw water from the Millefonti springs, which are the local reserve supply of Turin and are used only when it is necessary to supplement the yield on the city's external aqueducts. Except in the event of failure of one of the aqueducts or pumping stations outside the city, the Millefonti springs will probably not have to be brought into use again until next summer.

Transport.

Release was obtained for 4 new vehicles from Fiat for the Genio Civile, Lombardia Region. Application was made for vehicles for Genio Civile Venezia.

The Section during the month under review obtained from the Captured Enemy Vehicle Pool for Fifth Army, 13 trucks for use of the Genio Civile and Mine Clearance Group. There were in addition two trucks and two passenger cars obtained during the closing days of July. These transactions have been handled in strict compliance with AFHQ regulations covering disposal of enemy material.

Electricity.

Practically all of the electric plants, lines and sub-stations in Piemonte that were damaged have been repaired or are being finished. They are all expected to be in operation by the end of September.

Gas.

The small ovens of the Turin Gas Works are operating and will begin to furnish gas to Fiat and Philips on Sep 3rd, through the high pressure line. They have been alloted 2,000 Tons of coal for this purpose for September. Part of this is here and the balance is expected by the time it is needed. This 2,000 tons of coal will be consumed during September.

It is required to warm up the large ovens of the Turin

Highways.

On State roads, projects have been received and the majority of them approved on all but seventeen interruptions. Only one of these interruptions is a major one and projects are forthcoming. Repairs to the surfaces of routes 10, 11, 35, 35 bis, Autostrada, 25, 26, and 30 are in progress. On those routes which are not of AMG priority all materials are furnished by either the contractor or catrame (road tar) from CMLDC is being used.

Provided the months of September and October do not bring unfavorable weather the network of roads will be safe for the following winter. Many bridges will not be permanently rebuilt, but there will be few interruptions on major provincial and state roads.

Water supply.

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700 Tons of coke is required to warm up the large ovens of the Turin Gas Works - 570 Tons of this has been received. The remaining 130 tons is expected soon. With the small ovens producing gas for Fiat and Philips they are also producing 30 tons of coke per day. So they are assured of getting the 700 tons of coke to warm up the large ovens.

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The other gas plants in Piemonte Region require 242 tons of coke to warm their ovens. Only 15 days is required to warm these, because they are small.

To furnish gas to Turin for domestic users 3 hours per day, and other industrial users will require 6,600 tons of coal per month. To this must be added the 2,000 Tons required for Fabilis and Fiat, or a grand total of 8,700 Tons per month will be required, beginning Oct. 1st.

3,000 Tons of coal will be required per month to furnish gas to the other towns and cities of Piemonte. It is recommended that sufficient coal be allotted to Turin before any is sent to other places, because Turin is where the most essential industries are located. Also it is less difficult to get fuel for domestic use in the smaller places than it is in the large city of Turin.

LIGURIA - (Regional Engineer: Lieut-Col. F. C. L. LEE, R.E.)

Public Works and Utilities.

The work of this Division has been very heavy during the month under report, over 1,000 projects have been checked and approved, including 523 projects for the provinces of Apuania and Lucca prior to closing on August 4, 1945.

In general other public works in the Region are reaching the second phase of rehabilitation, and projects now being dealt with include repairs to schools, public buildings, "case popolari" and other state or Municipal undertakings. There has also been a big increase in A.F.A.A. projects.

As a result of rainfall the supply of drinking water now equals demands and the special Water Control Committee is no longer required. Several projects for aqueduct repairs are in hand and the position is being watched.

With the completion of the removal of debris projects it has been possible to put in hand a considerable number of works for the repair of sewers and water lines both in provincial capitals and the smaller towns.

Owing to the short time available the approval of road and bridge projects has been dealt with on a relative priority basis. Works on Military routes are well in hand and other state roads and the more important provincial roads have also been started.

Ports.

Minesweeping has been continued only at the port of Genoa where a further section was declared free a week ago.

Since then there have been 8 liberty berths available and average tonnage per day handled has been in the region of 11,000 tons.

GENOA

At the request of the Minister of Public Works the Genoa Port engineers are submitting projects to be approved of a further 100,000,000 Lire Up to date 125,000,000 has been set under way mostly in units of up to 5,000,000 Lire and much of the work is already completed.

With the approval of the additional 100,000,000 there should be enough work to ensure the ability of the port to handle as much cargo as is likely to be required in the next few years.

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LA SPEZIA

[illegible] and levelling quays and railway has been made

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Good progress on clearing and levelling quays and railway has been made and 3 further projects of some size have been proposed and when approved can easily be carried out so long as the cement is forthcoming.

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Electricity.

COMPIRE PLANT

Temporary repairs have begun to shelter equipment from weather. These temporary repairs will be completed about 10 September 194_. Permanent repairs are to be made at a later date when communications are better and needed materials more readily available. Plant is operating.

BALANCED 50,000 K. GENO. STEAM PLANT

The following program for rehabilitation of this plant is being carried out :-

(1) Repair of damages to the frame of building so as to shelter machinery exposed to weather.

(2) Repair air-raid damage to electric equipment, switches, etc.

(3) Re-install hidden machinery and accessories.

(4) Checking and preparation for service of the other parts of the plant.

Plant should be ready for operation some time in December.

REPAIRS TO HIGH BALANCE IN L. STELLA ZONE

Damage to electric installations in this zone was extensive. Several of the Sub-Stations and transmission lines have been reactivated. There is still much to be done and work is continuing but again progress is slow due to lack of materials and transport.

VENTIMIGLIA ZONE

8 Km. of high tension transmission lines and 12 Km. of low tension transmission lines have been repaired. Five transformer cabins reactivated. There are still both high and low tension lines to be repaired.

LOMBARDIA - (Regional Engineer: Col. C. F. BOLICK, F.A.)

Public Works and Utilities.

In anticipation of approaching transfer of the Region to control of Italian Government and the advent of a more rigid procedure, the volume of projects presented for approval has risen enormously. This together with the fact that, for reasons given in last report, estimates previously submitted were very low, has produced a crop of supplementary requests for finance. These are being examined as rapidly as possible and passed to Finance Division with a request for early release of funds.

The Housing Committee for Milan city has still produced no concrete results. The P.W. Officer for Milan City has expressed the opinion that, as consituted at present, it never will produce results, and has recommended dissolution of existing committee and formation of a new one. This is considered rather a desperate council at the present stage and the matter has been referred to the Regional Commissioner, recommending renewed pressure on the Committee through the Prefect. In the meantime, this Division is handling all projects for repair of State-Provincial or Communal owned housing.

DAMAGED 50,000 H.P. GENOA STEEL PLANT

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Military Highways.

No. 2 District has now taken over completely military administration within the Regions and the C. E. has issued a revised list of A.F.H.Q. and District Priority Roads as follows :-

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Route 35 Milan/Pavia/Casteggio.

Route 10 Piacenza/ Alessandria/Turin.

Route 11 (Autostrada) Turin/Milan/Brescia.

Route 11 Brescia to Dist. Edy (AI/F.3856).

Other Highways.

Good progress is unattainable as bitumen is still not available for these roads. Temporary patching is in hand where possible.

Electricity and Gas.

The electricity power situation is favorable. The recent rains have almost filled the storage reservoirs of the hydro-electric plants. The power load is increasing but is still below normal.

The power companies are hoping that the gas plants in the Region will be put into operation before the beginning of cold weather, as yet, no fuel has been allocated to the gas plants and, unless fuel is provided immediately gas service will not be supplied before the beginning of cold weather and as a result the addition of electric heating and cooking devices will seriously overload the electric distribution systems.

This office has submitted a report on the fuel requirements for the operation of the gas plants in Lombardia in 19 Communes of 25,000 or more population. If the gas plants are to be in operation before the beginning of cold weather it is absolutely necessary that coke be supplied immediately for reheating the ovens.

VENEZIE - (Regional Engineer: Major W. KNIGHT, R.E.)

Public Works and Utilities.

This month has been an extremely busy one for P. W. & U. Division, due to the Genio Civile having made every endeavour to get as many projects submitted as possible before the closing down of the Region in September. During the past two month the Genio Civile, Provincial and Communal Engineers have been able to survey and assess the war damage in their respective zones and get all the data required for making their estimates. The total of projects presented for the month of August is 730. Every effort has been made by the Division to make effective the wishes of the Italian Ministry of Public Works, that as many projects as possible be approved and financed before the end of the month.

This Division has fully appreciated the reason behind this request by the Ministry of Public Works, and the fact that the whole economic structure in this Region may depend on the provision of sufficient work to absorb the unemployed in the coming winter months, during what may be a difficult period after the Italian Government has taken over control of the Northern Territory. Projects have therefore been considered and approved up to the last possible day, and arrangements made with the Regional Finance Division, in order that all last minute approvals will be financed. The Officers of this Division will be sent to each Provincial H.Q. during the last week in order to see that everything is tied up financially. Many projects have been submitted this month for the completion of River Embankments and certain

Aqueducts.

One project for repairing the Aqueduct of Mestre was put in hand in

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Aqueducts.

One project for repairing the Aqueduct of Mestre was put in hand in order to augment the inadequate supply, and provide sufficient water for the Military in the area.

Two projects for supplying industrial and drinking water to the Port of Marghera in order to rehabilitate this industrial area have been submitted to Rome for approval, together with a project for repairs to the main pumping station at Mestre.

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Electricity.

The electrical position remains very satisfactory the power load being still about 7% above normal owing to non-operation of gas works due to lack of fuel.

A project to repair the Gas works at Bolzano was submitted to Rome for approval.

There is every hope that coal will be made available in the near future to reactivate the gas plant at Vetro Coke, Marghera, in order to produce gloss which is vitally necessary for Public Buildings and Houses and also to supply Venice and Mestre with gas.

VENEZIA GIULIA

Electricity and Gas.

Repairs to the intake works at PIAVA and to the main transmission lines continue.

There has been no shortage of supply but the turn-over from gas to electricity for cooking is imposing a heavy strain on low tension distribution systems.

The bright spot of the month has been the possibility of providing TRIESTE with a limited gas supply during the winter months. As a result of discussions with the Chief Commerce Officer of this H.Q. and Lt-Col. Johns of A.F.H.Q. there is a real prospect of sufficient coal being allocated to give a daily gas service of about 4 hours, sufficient to take care of domestic cooking and relieve the electrical over load. The gas works and mains are in good condition. Heating up the retorts will take two months and in order to save time the Chief Commerce Officer has released sufficient coal for this purpose from current stocks in anticipation of approval of allocation for gas manufacture.

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HEADQUARTERS ALLIED COMMISSION
AIO 304
Public Works and Utilities Sub-Commission

18 August 1945.

AUG 27 1945

MONTHLY REPORT - JULY

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S U M M A R Y

PUBLIC WORKS DIVISION.

Ports.

During the month additional projects were approved for rehabilitation work at the Ports of Genoa, Savona, La Spezia, Apuania, Viareggio and Ancona. Activities are hampered somewhat by mine clearance operations but in general, progress is satisfactory.

Transport.

An allocation of 158 "war weary" cargo trucks was received, of which 63 have been collected. These vehicles are being repaired as rapidly as spare parts can be obtained. Fifth Army allocated an additional 60 trucks and 6 passenger vehicles to Regions for use on Military Highways and many of these also require overhauling before becoming available for regular operations.

Highways and Bridges.

Work on military highways is progressing satisfactorily as fairly adequate bitumen supplies are being made available by Army Units, but on civil roads bitumen is critically short which prohibits proper maintenance and repairs. Bridge reconstruction is very satisfactory with 50 having been completed during July. A total of 1,761 bridges in Italy have been completed to date.

Handover of Territory to Italian Government.

All Public Works activities in Emilia Region and in Lucca and Apuania Provinces of Liguria Region were handed over to Italian Agencies in an orderly manner. Approx. 250 projects costing a total of over 1,000 million lire were approved in Emilia during the last part of the month and financing has been arranged. It is anticipated that all Public Works Officers can be withdrawn by 20 August 1945.

Highways Equipment.

Additional items of road machinery were requisitioned including 300 dump trucks in an effort to place the Ministry of Public Works in a position to assume total responsibility for military highways maintenance by the end of September.

ELECTRICAL DIVISION.

Italian Advisory Committees.

4456

Two new important committees were formed and met during July; one comprising representatives of Electrical Industry for Northern Italy and the other composed of representatives of the Sardinia, Sicily, Southern Italy, Central Italy and Northern Italy Advisory Committees. This body is known as the

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Power allocations.

Additional power in the amount of 34,000 KW was allocated to Central Italy for the month of August 1945.

No additional allocations were allowed for August 1945.

The power situation in Northern Italy remained satisfactory and no rationing was been necessary.

Master Control.

On Sunday July 22 the Central Italy Grid System operated at 50 cycles on a trial basis. No difficulties were encountered during the Sunday trial period.

Italy Generation and Transmission.

No material change took place during the month with respect to the total available generating capacity in Central Italy.

A 120,000 Volt line between Northern and Central Italy was restored to operation during the month.

The already precarious situation in Southern Italy was made more serious by the outage of two generators at Gela totaling 45,000 KW. Repairs are being effected.

In North Italy the absence of fuel resulted in additional demands for electricity for domestic purposes.

Although hampered with scarcity of materials and transportation facilities reconstruction work on the electrical systems in North Italy showed progress.

Materials and Supplies.

During July all demands for materials for reconstruction in Central and Southern Italy were met, with the exception of steel plates and sections. It is hoped to clear up all outstanding demands during August.

A number of tyres were made available to Public Utilities Companies from Military sources, during July, this has eased the transportation problem of the Utility Companies.

Transportation for Electric Companies.

Intensive efforts were made by Electric Companies to obtain heavy truck transport for electric transmission line rehabilitation work through established Italian Government Agencies. Up to the end of July they were unsuccessful.

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PUBLIC WORKS DIVISION

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1. Ports.

During July projects were approved and work initiated for rehabilitation programs at the ports of Genoa, Savona, La Spezia, Apuania, Viareggio and Ancona. Works had previously been approved at certain of these ports, but with the initiation of these new schemes the programs are greatly enlarged in scope. Mine clearance is proceeding under Naval direction, which retards certain of the activities but, in general, progress is very satisfactory. All port projects are being operated under the direction of an experienced Ports and Harbor Officer of this Sub-Commission.

2. Transport.

After special representation to 5th Army on the shortage of transport, 60 trucks and 8 passenger vehicles were allocated to Regions for use in maintenance of military Highways. These captured enemy vehicles are now being collected and repaired. Many will require major repairs before they will be available for regular operations but some assistance in overhauling is being received from Army Units.

An allocation of 158 "War weary" trucks was received from the Transportation Sub-Commission for the Ministry of Public Works of which 63 have been collected. Collection is continuing as rapidly as the vehicles become available. The trucks are not as a rule in condition but general overhauling and repairs are proceeding at the Genio Civile Depot at Rome as rapidly as necessary spare parts can be obtained.

Requisitions have been approved for 470 additional trucks which it is believed will be filled from Theatre stocks in the near future.

3. Highways and Bridges.

The very extensive program of repairs to Military Highways is progressing satisfactorily as fairly adequate supplies of bitumen are being made available from militar, sources, but on roads of civil importance only the supply of bitumen is critically inadequate. This shortage prohibits proper maintenance with the result that thousands of kilometers of road progressively grow worse. Civilian bitumen is on requisition for import and deliveries should begin in September.

Bridges reconstruction activities increased in magnitude during the [illegible] with Italy. All

	Transport	3
3	Highways and Bridges	3
4	Hand-over of Territory to Italian Government	4
5	Highway Equipment	4
6	Summaries of Projects - Tables "A", "B", "C"	5, 6, & 7.

1. Ports.

During July projects were approved and work initiated for rehabilitation programs at the ports of Genoa, Savona, La Spezia, Apuania, Viareggio and Ancona. Works had previously been approved at certain of these ports, but with the initiation of these new schemes the programs are greatly enlarged in scope. Mine clearance is proceeding under Naval direction, which retards certain of the activities but, in general, progress is very satisfactory. All port projects are being operates under the direction of an experienced Ports and Harbor Officer of this Sub-Commission.

2. Transport.

After special representation to 5th Army on the shortage of transport, 60 trucks and 8 passenger vehicles were allocated to Regions for use in maintenance of military Highways. These captured enemy vehicles are now being collected and repaired. Many will require major repairs before they will be available for regular operations but some assistance in overhauling is being received from Army Units.

An allocation of 158 "War weary" trucks was received from the Transportation Sub-Commission for the Ministry of Public Works of which 65 have been collected. Collection is continuing as rapidly as the vehicles become available. The trucks are not as a rule in condition but general overhauling and repairs are proceeding at the Genio Civile Depot at Rome as rapidly as necessary spare parts can be obtained.

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3. Highways and Bridges.

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Bridges reconstruction activities increased in magnitude during the month with the approval of numerous large projects in North Italy. All essential structures are being expedited in every way possible so as to complete foundation work before seasonal floods begin. No serious difficulties are being encountered in securing materials in A.M.G. territory but certain projects are being delayed in Italian Government territory due to shortage of cement.

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This has been discussed with the Ministry of Public Works and corrective action has been initiated.

By the end of July 1,761 bridges had been reconstructed in all of Italy, with 50 having been completed in July.

4. Hand-over of Territory to Italian Government.

At the end of the month all Public Works activities in Emilia Region and in Lucca and Apuania Provinces of Liguria Region were handed over to Italian Agencies. As a result of well coordinated advance planning and project scheduling on the part of Regional Public Works Officers and Italian Engineers the hand-over was completed in a very orderly manner and with all critical work financed. Emilia Region projects costing a total of over 1,900 million Lire were approved by this Headquarters during the last part of the month and financing has been arranged. It is anticipated that all Public Works Officers can be withdrawn from this territory by 20 August 1945. Necessary liaison will be done by Officers attached to this Headquarters.

5. Highway Equipment.

A requisition was prepared and submitted to A.F.H.Q. for additional items of road machinery including 300 dumps trucks. This equipment is required to supplement items now available in order to place the Ministry of Public Works in position to assume total responsibility for military highway maintenance by the end of September. This is in accordance with the request of military representatives. Items of equipment now on hand have largely been transferred to the Ministry of Public Works and distributed to the various Compartments. A school for operators and maintenance men is being conducted at the Central Depot in Rome and is proving very effective.

6. The following tables show under main classifications the present aggregate volume of Public Works throughout Italy :-

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PUBLIC WORKS PROJECTS IN ITALY (A.F.C.)

	Initiated during month	C O S T (Lire)	Completed during month	C O S T (Lire)	In progress during month
TABLE "A"		Schemes of military priority			
Roads	37	142,633,434	20	20,460,550	61
Bridges & Retaining Walls	20	48,428,846	2	6,282,000	27
TOTAL	57	191,062,280	22	26,742,550	91
TABLE "B"		Schemes other than of Military Priority (but for which approval AC/AFG was required)			
Roads	265	183,831,430	33	27,185,300	326
Bridges & Retaining Walls	397	580,137,866	33	44,315,742	367
Public Buildings, Schools, etc.	122	288,284,182	33	17,301,262	247
Debris Removal & Misc.	215	283,212,776	9	5,052,000	114
Water Work, Sewers & Flood Control	306	384,824,607	55	26,507,000	367
Housing	26	48,104,000	13	3,886,750	35
TOTAL	1,331	1,776,396,861	176	124,248,054	1,486
TABLE "C"		Schemes handled independently by Italian agency			
Roads	55	8,290,930	6	44,000	54
Bridges & Retaining Walls	39	4,536,000	--	--	35
Public Buildings, Schools, etc.	106	15,668,570	6	724,000	47
Debris Removal & Misc.	7	1,206,440	--	--	7
Water Works, Sewers, & Flood Control	369	61,461,616	21	3,013,462	119
Housing	--	--	--	--	--
TOTAL	570	90,863,556	32	4,081,462	258
GRAND TOTAL	1,978	2,058,322,697	230	155,072,066	1,835

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PUBLIC WORKS PROJECTS IN JULY (A.E.C.)

	Initiated during month	C O S T (Lire)	Completed during month	C O S T (Lire)	In progress during month	C O S T (Lire)
Schemes of military priority						
	37	42,633,434	20	20,460,550	64	164,205,483
ining Wells	20	48,408,816	2	6,282,000	27	98,369,396
	57	191,062,280	22	26,742,550	91	262,574,879
Schemes other than of Military Priority (but for which approval AC/AMG was required)						
	265	183,831,430	33	27,185,300	326	222,057,777
ning Wells	397	588,137,866	13	44,315,712	367	390,223,682
,	122	288,286,182	33	17,301,262	247	276,195,042
& Misc.	215	283,212,776	9	5,052,000	144	163,602,720
ers &	306	384,821,607	55	26,507,000	367	401,384,300
	26	48,104,000	13	3,886,750	35	27,173,660
	1,331	1,776,396,861	176	121,218,034	1,486	1,480,941,171
Schemes handled independently by Italian Agency						
	55	8,390,930	6	44,000	54	8,400,930
ning Wells	33	4,536,000	--	--	35	4,580,000
,	106	15,058,570	6	724,000	47	6,416,25[illegible]
& Misc.	7	1,206,440	--	--	7	1,206,440
ers,	389	61,461,616	21	3,013,462	115	13,197,506
	--	--	--	--	--	--
	590	90,863,536	32	4,081,462	258	33,541,076
	1,978	2,058,322,697	230	155,072,066	1,835	1,777,057,126

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PUBLIC WORKS PROJECTS BY KIND OF GOVERNMENT UNDER PC1 THE 30TH OF JULY 45

TYPE OF PROJECTS	Works initiated during month	COST (Lire)	Works completed	COST (Lire)	Wks in progress during month	C (L
TABLE "A"			SCHEMES OF MILITARY UTILITY			
Roads	79	184,947,230	85	190,907,332	182	6
Bridges	2	7,260,000	8	13,879,340	65	1
TOTAL "A"	81	192,117,230	93	204,786,672	247	7
TABLE "B"			CIVILIAN USES			
Roads	210	268,866,752	190	132,383,685	700	6
Bridges	114	32,006,283	128	72,617,717	524	2
Public Buildings	169	111,654,308	121	51,716,773	504	4
Schools	69	13,[illegible],45	40	15,268,282	267	8
Churches & Charitable Inst.	64	27,668,684	73	24,571,450	290	2
Debris Removal, Etc.	179	24,039,939	234	22,773,630	510	2
Aqueducts, Sewers	25	25,396,253	13	1,271,719	258	2
Hydraulic works	48	346,792,235	37	47,929,550	145	3
Maritime works	33	33,280,692	30	11,640,601	102	1
Housing repairs	332	368,063,612	438	72,[illegible]2,016	1,277	9
Varifica	85	67,607,197	67	12,941,113	221	5
TOTAL "B"	1,388	1,[illegible],220	1,402	584,127,036	4,778	4,8
GRAND TOTAL (A & B)	1,469	1,8[illegible],450	1,495	788,913,708	5,025	5,0

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FIGURES GIVEN IN THIS GOVERNMENT PUBLICATION FOR THE COST OF THE W...

Works initiated during month	COST (Lire)	Works completed	COST (Lire)	Works in progress during month	COST (Lire)
SCALES OF MILITARY PRIORITY					
79	161,917,230	85	190,907,332	182	625,745,606
2	7,200,000	8	13,879,340	65	171,100,300
81	192,117,230	93	204,786,672	247	796,81.,906
CIVILIAN WORKS					
210	208,866,752	190	192,387,685	700	670,744,691
114	325,006,283	121	72,8..,727	521	740,367,063
169	111,658,308	121	51,746,773	504	477,665,563
69	33,.4,.55	40	13,268,282	267	229,936,802
le East. 64	27,668,684	73	21,271,450	290	230,928,296
179	94,0.9,959	2.4	23,77..610	510	28.,260,604
55	2,.96,285	11	1,271,719	238	27,3..,065
48	3.6,792,935	37	17,932,530	145	3.8,73.,032
33	33,...,69.	30	11,6.0,801	102	102,669,699
352	368,863,612	438	72,..2,036	1,277	95.,715,711
85	67,.07,197	67	12,91.,113	221	571,0.8,691
1,388	1,65.,..,.30	1,402	584,1.7,036	4,778	4,683,875,457
1,469	1,8.7,..0,.60	1,495	788,913,708	5,025	5,0.0,7.1,363

TABLE "C"

SUMMARY REPORT OF PROGRESS OF HOUSING PLANS

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Provinces of: Agrigento, Ascoli Piceno, Avellino, Bari, Benevento, Brindisi, Cagliari, Caltanissetta, Campobasso, Catania, Catanzaro, Chieti, Cosenza, Enna, Foggia, Frosinone, L'Aquila, Latina, Lecce, Livorno, Matera, Messina, Napoli, Nuoro, Palermo, Pescara, Pistoia, Potenza, Ragusa, Reggio Calabria, Rieti, Roma, Salerno, Sassari, Siracusa, Taranto, Teramo, Terni, Trapani, Viterbo. -

THIS REPORT COVERS THE 30TH OF JUNE 1945.

	1 Started before June.	2 Started during June	3 Total Col. 1 & 2	4 Approx. cost in thousand Lire.	5 Completed by 30 June 1945.	6 Balance underway & less 5
Projects done by the owners:						
up to 30,000 Lire	9,426	1,072	10,498	308,382	7,142	3,356
from 30,000 to 150,000 Lire	5,360	1,698	6,656	684,853	3,194	3,464
From 150,000 to 300,000 Lire	1,690	183	1,813	404,658	790	1,023
from 300,000 to 1,000,000 Lire	609	47	656	377,289	187	469
over 1,000,000 L.	120	14	134	229,633	33	101
TOTAL	17,345	2,414	19,759	2,003,815	11,346	8,413
Projects done by Genio Civile:						
up to 30,000 Lire	7,967	469	8,436	154,271	5,934	2,502
from 30,000 to 150,000 Lire	2,050	148	2,198	194,004	1,041	1,157
from 150,000 to 300,000 Lire	673	85	758	150,303	259	499
from 300,000 to 1,000,000 Lire	309	65	374	202,065	84	290
over 1,000,000 L.	100	24	124	349,488	4	120
TOTAL	11,099	791	11,890	1,057,125	7,322	4,568
GRAND TOTAL	28,444	3,205	31,649	3,060,740	18,668	12,981

COMMUNAL COMMITTEES

	Preceding total	Total this month	New total
Working Committees	327	22	349
Advisory Committees	10	-	10
Communes as yet requiring Committees	115	-	115

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	Started before June.	Started during June	Total Cols. 1 & 2	Approx. cost in thousand Lire.	Completed by 30 June 1945.	Balance underway 3 less 5
Projects done by the owners:						
up to 50,000 Lire	9,426	1,072	10,498	308,888	7,142	3,356
from 50,000 to 150,000 Lire	5,540	1,098	6,638	684,859	3,194	3,464
From 150,000 to 300,000 Lire	1,630	183	1,813	404,558	790	1,043
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COMMUNAL COMMITTEES

	Preceding total	Total this month	New total
Working Committees	327	22	349
Advisory Committees	106	-	106
Communes as yet requiring Committees	115	-	[illegible]

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ELECTRICAL DIVISION

FILES.

Section	SUBJECTS	Page
1	Italian Advisory Committees	8.
2	Power allocations	8
3	Master Control	9
4	Italy Generation and Transmission	9
5	Materials and Supplies	10
6	Transportation for electric companies	10

1. Italian Advisory Committees.

The Advisory Committee on Electric Power - Northern Italy was formed and the first meeting held on 19 July 45 in Milan with the Chief of the Electrical Division acting as chairman. This is the fifth and last Regional Committee on Electric Power to be formed - others formed and now operating are: Sicily, Sardinia, Southern Italy and Central Italy. These Regional Committees meet once each month.

The National Advisory Committee on Electric Power for Italy was formed and the first meeting held on 27 July 45 at the Ministry of Public Works building in Rome with Engineer Visentini, Inspector General Electric Power, Gas and Water, as Chairman. Membership of the National Committee includes selected representatives of the first Regional Committees and other Engineers qualified to advise the Italian Government on matter relative to Electric power. The Inspector General will be the permanent Chairmen of the National Committee.

The present schedule for the National Committee meetings will be once each month and after the regional meetings have been held. Later the National Committee will meet at the direction of the chairman.

2. Power allocations.

The regular monthly meeting of the Electric Power Committee of the Allied Forces Local Resources Board (Italy) was attended by representatives of this Sub-Commission.

For Southern Italy the situation is more critical than was indicated in last months report, due to further machine trouble at the Sulla power plants and mentioned elsewhere in this report. No increases in allocations were allowed for August. The military reported that they were making feeder line cuts in order to meet the load and recommended that the Italian Government take similar action with respect to civilian loads. It was recommended that a meeting be held by representatives of this Sub-Commission, Industry Sub-Commission, Ministry of Public Works, Ministry of Industry, Military District No. 3 and the Power Company officials to develope definite methods of controlling and reducing the civilian consumption. This meeting is scheduled for early August.

Additional power in the amount of 34,000 KW, was allocated for Central Italy for the month of August upon the recommendation of this Sub-Commission; 30,000 KW of this increase to be permitted when the third Orvieto Unit

3 Master Control 9
4 Italy Generation and Transmission 9
5 Materials and Supplies 10
6 Transportation for electric companies 10

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Additional power in the amount of 34,000 KW, was allocated for Central Italy for the month of August upon the recommendation of this Sub-Commission; 30,000 KW of this increase to be permitted when the third Gualdo Unit (35,000 KW) was ready for operation the first week in August. This date will be met considering the progress which had been made up to the end of July.

The balance of 4,000 KW will be allowed to go on the lines when the Central Italy Electric Grid is changed from 45 to 50 cycles (about 20 August)

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permitting synchronization with the North Italy 50 cycles supply.

Of the 34,000 KW increase allowed for August 28,000 KW will be for the city of Rome and environs which will make a total of 80,000 KW available for the city and will be between 60 and 70% of power. This meets all essential civilian needs including improved tramway service, operation of elevators, industries requiring power, better street lighting, etc.

3. Master Control.

On Sunday July 22 the Central Italy Grid System operated at 50 cycles on a trial basis. No difficulties were noticed during the Sunday trial period.

4. Italy Generation and Transmission.

(a) Southern Italy.

When two generators at the Tiupagrande plant of the Silo development broke down within a few days of each other, the South Italy electricity situation became serious. To effect a quick reduction in electrical load, many feeders were de-energized. Also, to help improve the power situation the steam plant at the Taranto Navy Yard was started, producing about 2,000 KW, and the output of the Capuene Plant in Naples was increased to 30,000 KW.

One of the damaged Tiupagrande generators, of 30,000 KW capacity, was re-wired within a few days; the other generator, with a 15,000 KW rating, is expected in service by mid-August.

Work continued on rehabilitating the 58,000 volt line between Lete and Roccaraso, and the project is expected to be finished in August. Later repairs will be started on the stretch between Roccaraso and Aventino, and this line should be in operation in October. In the generating stations connected by this transmission line, Lete and Aventino, work weaton, with the expectation that a machine in each will be ready in August, adding a total of 9,400 KW nameplate capacity to the southern system. Because of water shortage, however, the full capacity will not be realized this summer.

Work continues on the 150,000 Volt interconnection between Central and Southern Italy, and if there is an improvement in transportation part of the line in Southern Italy will be ready about 15 September. Present expectations are that the Central Italy part of this interconnection will be ready by the end of September, subject to the same problem of transportation. By 15 October, it is hoped that a 150,000 volt line between Pescara and Naples will be completed, permitting the Naples area to receive an additional 20,000 Kilowatts.

(b) Central Italy.

Generating capacity remained about static during the month. A 3,400 Kilowatts generator started at Ponte Fiume, southeast of Rome. A unit at Tivoli, moved from Scalille was taken out of service because of operating difficulties. The electricity situation was greatly eased in Central Italy, however, following the completion of the 120,000 Volt transmission line connecting Florence with North Italy, permitting most of the Florence area to be supplied from the North instead from the Central Italy Grid. Operation of the Grid at 50 cycles instead of 45 is planned for 17 August. Plans call for an increase in system frequency to 47 cycles on 2 August and a gradual increase to 50 cycles by 17 August in order that any unforeseen difficulties may be corrected. On Sunday 22 July, when the power demand was light, the system was operated at 50 cycles with no ill effects. On

On Sunday July 22 the Central Italy Grid System operated at 50 cycles on a trial basis. No difficulties were noticed during the Sunday trial period.

4. Italy Generation and Transmission.

(a) Southern Italy.

When two generators at the Timpagrande plant of the Silk development broke down within a few days of each other, the South Italy electricity situation became serious. To effect a quick reduction in electrical load, many feeders were de-energized. Also, to help improve the power situation the steam plant at the Taranto Navy Yard was started, producing about 2,000 KW, and the output of the Capuano Plant in Naples was increased to 30,000 KW.

One of the damaged Timpagrande generators, of 50,000 KW capacity, was re wired within a few days; the other generator, with a 45,000 KW rating, is expected in service by mid-August.

Work continued on rehabilitating the 86,000 volt line between Isto and Roccarasso, and the project is expected to be finished in August. Later repairs will be started on the stretch between Roccarasso and Aventino, and this line should be in operation in October. In the generating stations connected by this transmission line, Isto and Aventino, work went on, with the expectation that one unit in each will be ready in August, adding a total of 9,000 KW nameplate capacity to the southern system. Because of water shortage, however, the full capacity will not be realized this summer.

Work continued on the 150,000 Volt interconnection between Central and Southern Italy, and if there is an improvement in transportation part of the line in Southern Italy will be ready about 15 September. Present expectations are that the Central Italy part of this interconnection will be ready by the end of September, subject to the usual problem of transportation. By 15 October, it is hoped that a 150,000 volt line between Pescara and Naples will be completed, permitting the Naples area to receive an additional 20,000 Kilowatts.

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An additional 35,000 KW machine will start at Gambleto in August, making still more power available to Central Italy.

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(c) Northern Italy.

Repair work has made many high tension lines available in the Bologna - Ferrara - Portomaggiore area. Work progressed well on the Portomaggiore - Forli line, expected to be completed in August. Repairs in other areas of Northern Italy have progressed, although they could be expedited if more materials and transportation were available. A lack of fuel (gas especially) has caused an increased electrical demand for domestic purposes; already in Summer, the electrical demand in Venice and other cities in North Italy greatly exceeds last year's maximum figure.

5. Materials and Supplies.

During July all demands for available materials for reconstruction in Central and Southern Italy were met, two main items short in supply were steel plates and sections. It is hoped to clear up all outstanding demands during August.

Most all supplies are now handled by the Italian Government, but in many cases, demands from civilian firms require an endorsement to the effect that, material so demanded is essential to the programme for reconstruction, and that the release of the material has the approval of Allied Commission.

A number of tyres were made available to Public Utilities Companies from Military sources during July, this has eased the transportation problem of the Utility Companies.

6. Transportation for Electric Companies.

Intensive efforts were made by the Electric Companies to obtain heavy truck transport for electric transmission line rehabilitation work, through established Italian Government Agencies. Up to the end of July they were unsuccessful but during the first week in August some transport has been made available.

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During July all demands for available materials for reconstruction in Central and Southern Italy were met, two main items short in supply were steel plates and sections. It is hoped to clear up all outstanding demands during August.

Most all supplies are now handled by the Italian Government, but in many cases, demands from civilian firms require an endorsement to the effect that, material so demanded is essential to the programme for reconstruction, and that the release of the material has the approval of Allied Commission.

A number of tyres were made available to Public Utilities Companies from Military sources during July, this has eased the transportation problem of the Utility Companies.

6. Transportation for Electric Companies.

Intensive efforts were made by the Electric Companies to obtain heavy truck transport for electric transmission line rehabilitation work, through established Italian Government Agencies. Up to the end of July they were unsuccessful but during the first week in August some transport has been made available.

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REGIONAL REPORTS

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The number, cost and status of all projects in the several regions are included in the Summary tables on pages: 5, 6, & 7.

EMILIA - (Regional Engineer: Major F. W. HOLAND, S.A.E.)

Public Works & Utilities.

Most of the Provinces have submitted to this Headquarters for approval considerable number of projects concerning repairs to private houses in accordance with the housing decree. The small Communes, especially the ones which are included in the battle field area, have difficulty to meet the rehousing problems. The principal reason for this delay are due to lack of money by the owners, mine fields still to be cleared and the lack of transportation.

Plans are being drawn up for the repairs of the heavily damaged buildings of Bologna University, with an estimated cost of 460,000,000 Lire. Projects totally L. 99,000,000 have been approved, to cover the initial phase of this reconstruction work.

Highways and Bridges.

Approximately 3,000 Contadini workers are presently employed in the part of Region controlled by No 1 District. Figures for the remainder of the Region are not available but a safe estimate would be 1,000. Improvement in critical materials and supplies has brought about considerable activity.

A quantity of road building equipment has been received in the Region and is now being readied for operation. Two complete primary-secondary crushing plants will be ready for production shortly. A limited amount of transport has been received from 5 Army, but not yet turned over to Civil Authorities for operation. In view of the imminent closing of the Region, every effort is being made to get all plants into operation before the [illegible] closing time arrives.

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A plan has been developed in cooperation with civilian manufacturer and USVS which will enable them to produce sufficient bitumen substitute from coal-tar available in the Region to take care of at least half the main road mileage. If rail transport can be obtained, a supply of natural asphalt (impregnated lime

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MILAN - (Regional Engineer: Major T. W. HYLAND, S.A.)

Public Works & Utilities.

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A plan has been developed in cooperation with civilian manufacturer and USVS which will enable them to produce sufficient bitumen substitute from coal-tar available in the Region to take care of at least half the main road mileage. If rail transport can be obtained, a supply of natural asphalt impregnated lime existent Pescara which can be ground and used for the remaining half of the Region. Rail transport for the latter and assistance in obtaining pitch releases from the various Gas Works in the Region are the only obstacles to a complete supply of road building material from local resources. This is an extremely important development and one which should be completed before the Region closes.

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Drainage and Flood Control.

During the month this section has continued the supervision of the 39 Bonifices of the Region, the repairs and maintenance taken over during the month of June from Army Units.

Water Supply and Sewerage.

Sewer repairs in the whole region are well in hand; in some cities like Bologna, Rimini, Forli and Ravenna all the main sections have been completed and up to the present there are no existing health hazards caused by inadequate sewage systems.

Miscellaneous.

U.S.V.S. and Genio Civile Officials are reacting very satisfactorily and are cooperating to their fullest extent. Close contact is being maintained with the office of the Ispettore Genio Civile in order to make that office fully familiar with our construction records. Special emphasis is being placed on having the financing of all approved projects completed, prior to the official closing date of the Region on 4 August.

Transport remains the critical problem throughout the region. 15 trucks and 3 civilian cars were released from 5th Army and will be used by Genio Civile on Military Road Reconstruction work; also some tires were received for Genio Civile officials. To make the initiated construction program successful, considerable more transportation and P.O.L. will be needed.

Electricity.

(a) The month of July has been characterized by the repair of several important transmission lines and the transport of several important generating items. Full advantage is being made of the summer months for the heavy repairs. This work on all systems is now progressing satisfactorily in spite of the many difficulties which had to be overcome.

(b) TRANSMISSION: The Bologna Aqueduct line (19 Km.) at 15,000 volts was energized on 17 July. The Imola-Bologna (30 Km.) 15,000 volt line was energized on 19 July. The Bologna-Portomaggiore 50,000 volt line was energized on 20 July. The Forli-Portomaggiore 50,000 volt line is due for completion on 10 August and should be finished by that time. This line is by far the most important in this area and its completion is most important for feeding the Forli-Cesena area.

(c) GENERATION: One 5,000 KVA alternator at Strattara Plant has been transported to Genoa for repairs.

(d) SUB-STATION: Plans have been formulated for the rebuilding of the Edison Co. sub-stations at Bologna and Faenza. This work is dependent upon availability of heavy transportation. Work is now completed on the Forli sub-station and transformers and switchgear has been installed. Much work is being done at the Portomaggiore sub-station and this station should be finished by October for temporary service.

LIGURIA - (Regional Engineer: Lieut-Col. P.S.I. IEE, R.E.)

Public Works & Utilities.

On July 16, the Minister, accompanied by the Regional Engineer and the two Provincial Commissioners visited the area of the Gothic Line in

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...reduced by inadequate sewage systems.

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Public Works & Utilities.

On July 16, the Minister, accompanied by the Regional Engineer and the two Provincial Commissioners visited the area of the Gothic Line in Apuania and Lucca Provinces.

Works approved in Lucca and Apuania Provinces consisted of a very large number of projects both of the first and second phase. In this case

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of the latter, where the damage in the Gothic Line area is very severe, and; further projects for the removal of debris and demolition of dangerous structures were approved and the completion of projects previously approved allowed of the damage to sewers etc. to be inspected and projects approved for their repair. Projects for the repair of Public Buildings and Hospitals were also very numerous.

The position regarding drinking water is grave in many parts of Liguria, and particularly in Genoa where a special Water Control Committee has been formed to deal with the situation. Repairs to water installations in the smaller towns have been commenced, but as the work on the removal of debris had been so greatly delayed it is naturally difficult to form an estimate of the amount of work to be done.

The operation of the Italian Housing Decrees is at last getting under way and as a result of the 152 local Housing Committees required 111 are already operating. Financing of housing projects under these decrees has already been commenced, and we already have definite knowledge of nearly 3000 projects to a total cost of approximately 200 million lire.

Roads.

Road maintenance during the month has consisted of military projects for FAB and 10 CRE (2 District) and a large number of repairs on provincial roads to maintain communications in damaged areas during the winter months.

The Gothic Line area has been badly damaged and also certain military roads of high priority viz. Route 1 which runs right through the region and the Autostrada N of Genoa.

Bridge work on State Highways in this region are in most cases major operations and many have been put in hand during the month.

The bridge projects have been carefully screened to make the best use of available resources. Supplies of cement are likely to increase during the coming month.

Many projects for bridge reconstruction in the Gothic Line area have been approved as it is a matter of great urgency to rebuild at least the piers and abutments prior to the winter rains.

Ports Section.

On July 13. the Italian Minister of Public Works visited the Regional Engineer. He was much concerned with the progress of repairs to Genoa Port, which are greatly handicapped by the large number of mines still in the harbour. It was explained that the removal of sea mines was beyond the control of Public Works and Utilities Sub-Commission and that the Naval Authorities were dealing with the matter as quickly as possible. Meanwhile a large programme of repairs had been put on hand under the Port Construction Officer.

Four liberty berths are now open in the port of Genova and 1 liberty and 3 coaster berths at Savona.

Electricity and Gas.

Electric service in Liguria is excellent. At present the consumption is 120,000 KW, 85,000 KW being generated by the S.I.E.L., net and 35,000 imported from the Edison Groups in Lombardia. There should be no need for rationing of electricity in this region.

Repairs to the Conflenti generating plant in the Valle Sesia group have not yet started due to lack of materials and transport. The plant however is operating. Present output 300 KW.

Restoration of electric service in the Ventimiglia and Pozzo di

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Repairs to the Cogne generating plant in the Valle Aosta group have not yet started due to lack of materials and transport. The plant however is operating. Present output 300 KW.

Restoration of electric service in the Ventimiglia and Pointe del Larni zones is progressing slowly due to lack of materials. 50% of the programme in Ventimiglia zone has been completed. The aqueduct water pumps are in operation and also some of the irrigation pumps. About 30% of the programme in Porto del Larni has been completed.

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Restoration of electric service in the Sori zone is almost completed. An allocation of 2 tons of cement has been given to O.E.C. to complete the job. A normal supply is being maintained. Repairs to the bomb damaged intake works at F.M. power station are being hurried on so that this plant with its output of 10,000 KW can be put into operation. Strengthening and overhaul of pylons on the main supply lines in anticipation of winter conditions have been commenced.

PIEMONTE. - (Regional Engineer: Col. C. R. BENCHLEY, C.E.)

Public Works & Utilities.

Projects are in hand for all hospitals, schools, public buildings, case popolari, public warehouses where war damage is known to exist.

Highways.

This office was advised during the month that Highway No.11 was no longer a AMG priority road. Bids on three bridges in Torino province were opened. For each project there were 23 offers ranging from rebates of 26% to 65% increase. This indicates good competative bidding. Steps have been taken to instruct the Genio Civile to add names of contractors to these lists. Wages of workers, cost of transport and material are changing from day to day making it difficult for concerns to bid on projects. Where Bailey bridges now exist in the Region contracts have been let for permanent structures.

Housing.

Progress is less satisfactory. This past week every Genio Civile has been contacted and their comments are practically identical. We have also visited communes, talked to the committees and property owners. Some of their comments are :-

(a) It is difficult and in fact impossible to set up the prices as called for in the decree because prices are changing so rapidly.

(b) Materials not controlled by AMG are being held for a raise in price.

(c) Many home owners prefer to do the work themselves.

(d) The political situation is such that there is a general fear of going ahead and the use of authority.

Water.

The present drought has given rise to numerous temporary water supply difficulties, especially in Turin. Although the city is receiving some 900 litres per head per day (more than it has ever before consumed) the excessive use and unconscientious waste of water, induced by the hot weather, have emptied the reservoirs and reduced the pressure in such a manner that residents in the higher parts of the city and in the upper floors of buildings have been deprived of a regular supply. Action is being taken to conserve the supply as much as possible.

Fuel.

PIEDMONTE. - (Regional Engineer: Col. C. L. BIRCHER, C.E.)

Public Works & Utilities.

Projects are in need for all hospitals, schools, public buildings, case popolari, public warehouses where war damage is known to exist.

Highways.

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Fuel.

Fuel requests for P. Wks. & U. were cut to 10% of demands by the Commerce Division. This will be reflected in the actual field work done.

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Electricity & Gas.

The power load is increasing each week. During the week ending 20 July this peak increased from 310,000 KW to 325,000 KW, 15,000 KW in one week.

The turning over of the tram lines and short line Fi has given the Electrical section more time for inspection and field work in connection with the Power lines and Companies.

Trouble has been experienced with the stealing of high tension copper electric lines.

Trucks and tires for Electric Companies are still in short order.

Four new trucks and eight small new pick up trucks have been obtained from Fiat for the Power Companies.

A request has been made for fuel for preheating the gas plants and for operating on a 3 hour basis and 24 hour basis.

ROMAGNA - (Regional Engineer: Col. C. F. COLLECK, R.E.)

Public Works & Utilities.

Reasonably good progress is now being made with works of demolition and debris clearance. A.C. has approved a Lire 28,000,000 project for completion of a group of Case Popolari, previously half completed and then suspended. Work is now well in hand on a number of bridges previously delayed by contract difficulties.

A large volume of work has been approved during the month, but progress with actual commencement of work already approved leaves much to be desired. The fundamental reason is the uncertainty of contractors regarding labour and material costs, with the result that they are unwilling to commit themselves to contracts - except on a "cost and profit" basis which is most undesirable.

With regard to housing in Milan City, to which Regional Commissioner called a conference during the month, representatives of Communal Housing Committee reported that their preliminary work was substantially in hand and that first section of programme for repairs would be completed at an early date. In the meantime, until the work of Committee is well advanced, this Division is continuing some small housing repairs already in progress and is approving projects for Case Popolari and similar Institutes.

Military Highways.

Situation is as in June report. Maintenance work still delayed by lack of bitumen and transport, but situation improving.

Other Highways.

Situation as in June report. A good deal of re-sealing work is necessary, but cannot be put in hand, except in urgent cases, until the bitumen needs of Military Highways have been met.

Electricity & Gas.

There is still sufficient electric power to meet the needs in the Region in spite of the drought in this area. Coal has been allocated for industrial plants in the Region for the month of August and we anticipate an increase in the industrial power load.

The big problem in the gas industry is a supply of fuel. This

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Other Highways.

Situation as in June report. A good deal of re-sealing work is necessary, but cannot be put in hand, except in urgent cases, until the bitumen needs of military highways have been met.

Electricity & Gas.

There is still sufficient electric power to meet the needs in the Region in spite of the drought in this area. Coal has been allocated for industrial plants in the Region for the month of August and we can look to an increase in the industrial power load.

The big problem in the gas industry is a supply of fuel. This section again urges that immediate attention be given to the allocation of fuel for the gas plants in the Region.

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VENEZIE - (Regional Engineer: Major W. ARGALL, R.E.)

Public Works & Utilities.

Public works projects submitted by the Genio Civile have been on the increase, the Genio Civile now having got into the necessary procedure for preparing and submitting projects. The work on those already approved has gone ahead satisfactorily in spite of disputes over the wages question in the early part of the month. The wages have now been increased and it is hoped that there will not be any more further labour trouble.

A number of projects have been approved in order to alleviate the unemployment which in some provinces is fairly high.

A visit was made to HQ 13 Corps for the purpose of liaising with the Chief Engineer. At this meeting the Chief Engineer enumerated the Highways which the Army were interested in, it was also requested that a highway bridge over the river Tagliamento on Route 13 be completed, the first part of reconstructing this bridge, which was set in motion by the Army, having been completed. The Chief Engineer is having a reconnaissence made of all the destroyed bridges which the Army may require reconstructed, the information regarding these bridges not yet to hand.

Contact was made with A.M.G. Venezia Giulia in connection with the boundary limits of roads which spread into the two Regions; this was necessary due to Udine Province, which was originally under the Corpo Compartimento of Trieste, being transferred to Venezia Compartimento.

The forming of Committees for the Housing of the Hoofless has gone ahead satisfactorily and every help has been given to encourage these Committee's to put their plans before the Genio Civile, already a number of houses have been put into repair in a number of the damaged Communes.

The work on inspecting the bridges which have been destroyed on the State roads has been practically completed and instructions have been issued to Corps's Compartiments's for Projects to be prepared on these bridges which it is necessary should be reconstructed before the rains come and wash out by-passes and temporary structures.

Military Highways and Bridges.

The C.E. stated that certain Bailey bridges would have to be left because of the impossibility of reconstructing new steel bridges, such bridges are at Intisana over the river Tagliamento and river Stella both on Route 14.

C.E. No.1 District requested that projects for four bridges on route 47 should be prepared and the bridges reconstructed in order that the Bailey bridges could be removed.

Flood Control - Benifica and Irrigation.

A lot of work has been put into repairs of the canals necessary for irrigating crops which were in danger of being spoilt by the local drought which had had a very bad effect on the agricultural industry throughout Italy. It was considered that every effort should be made to repair these canals which had been damaged by bombing and save the crops. A fair amount of cement was necessary for this purpose and it was fortunate that stocks were found which enabled this work to be carried out.

Electricity.

The repairs to transmission and distribution lines is being continued on a reduced scale.

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Electricity.

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Reinstallation of three generating stations is progressing, namely Busseleago, Chievo and Piave (Venezia Giulia).

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The consumption of electrical energy is about 7% above the same month of last year. A similar comparison for generation indicates a 6% improvement.

E. J. Kirsch,
Colonel, C.E.,
A/Director.

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Lt. J. Acree,
Colonel, G.S.,
A/Director.

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

14 July 1945.

JUL 26 1945

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S U M M A R Y

PUBLIC WORKS DIVISION.

Housing.

Communal Housing Committees are becoming increasingly active in Italian Government Territory but progress is less advanced in A.L.G. Territory. Functioning Committees now total 433, with 24,344 housing repair projects having been started and 12,646 completed. The value of work on housing to the end of June amounts to 2,542 million lire.

Ports.

A comprehensive five year rehabilitation program for the port of Genoa was submitted for consideration with a total cost of approximately 950 million lire. Approval was given for the initial urgent work which can be accomplished in 1945 amounting to approximately 95 million lire.

Highways.

A.F.H.Q. road priorities have been established in North Italy and requests have been received from the Military for contracts to be placed as rapidly as possible for reconstruction and maintenance. The policy is for Bailey type bridging to be recovered rapidly therefore schemes for permenent reconstruction at Bailey sites are being given priority.

Inland Waterways

Plans are under way for the rehabilitation of Inland Waterway system in the Po Valley including repairs to locks and removal of obstructions from stream beds. Regional Engineers are working in cooperation with representatives of Ministries of Transport and Public Works in making surveys and establishing priorities of work.

ELECTRICAL DIVISION.

Italian Advisory Committees.

Monthly meetings of the Committees were held during the month. Further reports and discussions were held on the conversion of Central and Southern Italy from 45 cycles to 50 cycles. Central Italy expects to convert the later part of July 1945 and Southern Italy in December 1945. Measures to meet the anticipated shortage of electric power in Southern Italy for the balance of 1945 were discussed.

Power allocations.

4415

A study of the power availability for the balance of the year 1945, for Central and Southern Italy was presented to the Electric Power Committee of the A.F.H.Q.(I) B. Curtailment seems imminent in Southern Italy. The matter will also be studied by the Italian Government.

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Power allocations.

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A study of the power availability for the balance of the year 1945, for Central and Southern Italy was presented to the Electric Power Committee of the A.F.L.H.(I) B. Curtailment seems imminent in Southern Italy. The matter will also be studied by the Italian Government.

Interchange of power between Central and Southern Italy.

To help meet the expected power shortage in Southern Italy plans have been set in motion to rehabilitate the high voltage transmission lines between Terni and Pescara and Pescara and Naples. It is expected to transport 20,000 KW of power by this means by October 1945 under high priority.

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Interchange of power between Northern and Central Italy.

During the month of June three 60,000 Volt transmission lines capable of transporting approximately 20,000 KW power from Northern to Central Italy were completed and put into operation. The 120 KV line serving the same purpose and capable of transporting 40,000 KW is expected to be finished in the first week of July.

Power distribution in N.W. Italy.

Negotiations are in progress toward an equitable settlement of the power distribution along the French border.

A.M.G. Venezia Giulia.

The Chief of the Electrical Division was appointed as a member of the Mission to meet with the Jugoslav Mission for the purpose of recommending procedures for industrial and financial relations between the areas under the jurisdiction of the Allies and the Jugoslav Government.

PUBLIC WORKS DIVISION

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2	Ports	2
3	Highways	3
4	Inland Water Ways	3
5	General	3
6	Summaries of Projects - Tables "A", "B" & "C".....	4,5, & 6.

1. Housing.

Reports compiled by the Ministry of Public Works and submitted to this H.Q. reveal that repairs under the provisions of the National Housing Decree are proceeding in a very satisfactory manner in Italian Government Territory. In A.M.G. Territory progress is less advanced partly because of excessive damage along the Gothic Line area. Public Works Officers are engaged in corrective measures insofar as limited personnel with permit, principally by contacts with Italian Officials and interpretation of decree provisions. Functioning Committees throughout Italy now total 433, with 24,344 housing repair projects having been started and 12,646 completed. The value of work on housing under the Decree to the end of June amounts to

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PUBLIC WORKS DIVISION

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2. Ports.

Projects have been approved during the month for rehabilitation activities on the ports of Genoa, Savona and Ancona. The port of Genoa

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presents the greatest problem both financially and operationally owing to its size and mine sweeping operations. During the month a very comprehensive five year program of rehabilitation was submitted to this H.Q. for consideration, amounting to approximately 950 million lire. Approval was given for first phase work or that which can be accomplished during 1945. This phase is estimated to cost approximately 95 million lire. This will serve to reactivate substantial areas of the port as well as to provide urgently needed employment to many hundreds of marine industry workmen.

3. Highways.

Road priorities as established by A.F.H.Q. were published during June for highways in North Italy. Requests have been received by Regional Engineers from Military Districts for contracts to be placed as soon as possible for reconstruction of bridges and road maintenance. Military Districts have also established certain priorities on roads of local importance but the total mileage is not extensive. Highway maintenance in general is being seriously retarded by inadequate supplies of bitumen and shortage of transport but indications are that improvements in the situation can be expected during July. Every effort is being made to reorganize Italian Government and civilian facilities to an extent whereby all military roads can be taken over completely from military units by 1 September. This can be accomplished if bitumen and equipment now on requisition are made available.

4. Inland Waterways.

In cooperation with Transportation Sub-Commission and Ministries of Public Works and Transport, plans are underway for the rehabilitation of inland waterway systems in the PO valley. Fairly comprehensive reports have been received on damage and priorities of work are being established. Projects are in process of preparation covering initial activities but the everall program will be a long term one.

5. General.

(a) Material. The construction material situation is somewhat improved over previous months except for bitumen which seriously affects work on highways of civil significance. Cement allocations are fairly adequate but much difficulty is being experienced insecuring rail transport as required.

(b) Transport. General improvement has been noted in the general situation but dump trucks for material transport are still urgently needed. An allocation of 158 cargo trucks to the Ministry of Public Works has just been received which will remedy the situation in certain areas. Approximately 350 trucks now provided by Military Units on Military Highways are being withdrawn therefore it is imperative that additional transport be made available. Substantial tyre allocations are now being received which have enabled Genio Civile and Contractors to place additional vehicles in operation.

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The following tables show under main classifications the present aggregate volume of Public Works thoughout Italian Government Territory and A.M.G. Territory :-

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PUBLIC WORKS PROJECTS IN ITALIAN GOVERNMENT TERRITORY FOR THE MONTH OF JUNE 1945

TYPE OF PROJECTS	Works initiated during month	C O S T (Lire)	Works completed during Month	C O S T (Lire)	Works in progress during month	C O S T (Lire)
TABLE 'A' — SCHEMES OF MILITARY PRIORITY						
Roads	24	39,832,382	22	52,553,135	195	538,1
Bridges	5	16,690,850	12	11,296,998	54	148,7
TOTAL 'A'	29	56,523,232	34	63,850,133	249	686,8
TABLE 'B' — CIVILIAN WORKS						
Roads	110	100,224,146	74	61,633,945	466	461,9
Bridges	82	92,172,973	40	43,706,735	321	440,8
Public Buildings	100	85,662,224	120	48,166,013	356	319,1
Schools	42	46,860,862	17	4,633,969	178	177,8
Churches & Charitable Inst.	70	50,023,495	60	22,140,561	231	203,1
Debris Removal, etc.	146	79,882,613	103	58,490,500	343	224,1
Aqueducts, Sewers	42	35,953,726	13	3,155,813	137	139,1
Hydraulic Works	8	2,195,943	11	5,124,750	42	26,1
Maritime Works	21	62,165,072	25	6,531,642	99	82,1
Housing Repairs	297	189,429,662	152	82,415,876	990	617,1
Bonifica	60	42,938,730	39	26,040,833	146	205,1
TOTAL 'B'	978	787,509,446	654	362,040,637	3,309	3,141,1
GRAND TOTAL (A & B)	1,007	844,032,678	688	425,890,770	3,558	3,827,1

(Data from Umbria not available therefore not included).

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PUBLIC WORKS PROJECTS I. ITALIAN GOVERNMENT TERRITORY FOR THE MONTH OF JUNE 1945

	Works initiated during Month	C O S T (Lire)	Works completed during Month	C O S T (Lire)	Works in progress during month	C O S T (Lire)
SCHEMES OF MILITARY PRIORITY						
	24	39,832,382	22	52,553,135	195	538,130,062
	5	16,690,850	12	11,296,998	54	148,762,625
	29	56,523,232	34	63,850,133	249	686,892,687
CIVILIAN WORKS						
	110	100,224,146	74	61,633,945	466	461,940,459
	82	92,172,973	40	43,706,735	321	440,820,525
	100	85,662,224	120	48,166,013	356	319,388,968
	42	46,860,862	17	4,633,969	178	177,440,701
Inst.	70	50,023,495	60	22,140,561	231	203,132,860
	146	79,882,613	103	58,490,500	343	224,239,204
	42	35,953,726	13	3,155,813	137	139,294,743
	8	2,195,943	11	5,124,750	42	269,828,183
	21	62,165,072	25	6,531,642	99	82,462,458
	297	189,429,662	152	82,415,876	990	617,213,272
	60	42,938,730	39	26,040,833	146	205,258,411
	978	787,509,446	654	362,040,637	3,309	3,141,019,784
	1,007	844,032,678	688	425,890,770	3,558	3,827,912,471

available therefore not included).

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TABLE 'B' (273)

SUMMARY REPORT ON PROGRESS OF HOUSING REPAIRS. -

Province of: Agrigento, Ascoli Piceno, Avellino, Bari, Benevento, Brindisi, Cagliari, Caltanissetta, Campobasso, Catania, Catanzaro, Chisti, Cosenza, Enna, Foggia, Frosinone, L'Aquila, Latinia, Lecce, Livorno, Matera, Messina, Napoli, Nuoro, Palermo, Pescara, Pistoia, Potenza, Ragusa, Reggio Calabria, Rieti, Roma, Salerno, Sassari, Siracusa, Taranto, Teramo, Terni, Trapani, Viterbo. -

THIS REPORT COVERS THE MONTH OF MAY 1945.

	1 Started before May.	2 Started during May.	3 Total Col. 1 & 2	4 Approx.cost in thousand Lire.	5 Completed by 30 May 1945.	6 Balance underway 3 less 5
Projects done by the owners:						
up to 50,000 Lire	7,602	1,458	9,060	268,656	5,176	3,884
from 50,000 to 150,000 Lire	4,368	1,226	5,594	564,541	2,300	3,294
from 150,000 to 300,000 Lire	1,360	221	1,581	361,629	635	948
from 300,000 to 1,000,000 Lire	506	70	576	340,165	114	462
over 1,000,000 L.	108	16	124	238,378	26	98
TOTAL	13,944	2,991	16,935	1,773,369	8,249	8,686
Projects done by Genio Civile						
up to 50,000 Lire	4,780	23	4,803	82,743	3,432	1,371
from 50,000 to 150,000 Lire	1,780	81	1,541	114,061	705	636
from 150,000 to 300,000 Lire	587	67	654	128,766	211	443
from 300,000 tp 1,000,000 Lire	251	56	307	170,050	44	263
over 1,000,000 Lire	67	37	104	273,141	5	99
TOTAL	7.145	264	7,409	768,761	4,397	3,012
GRAND TOTAL	21,089	3,255	24,344	2,542,130	12,646	11,698

COMMUNAL COMMITTEES

	Preceeding total	Total this month	New Total
Working Committees	314	13	327
Advisory Committees	83	3	86
Communes as yet requiring Committees	108	1	109

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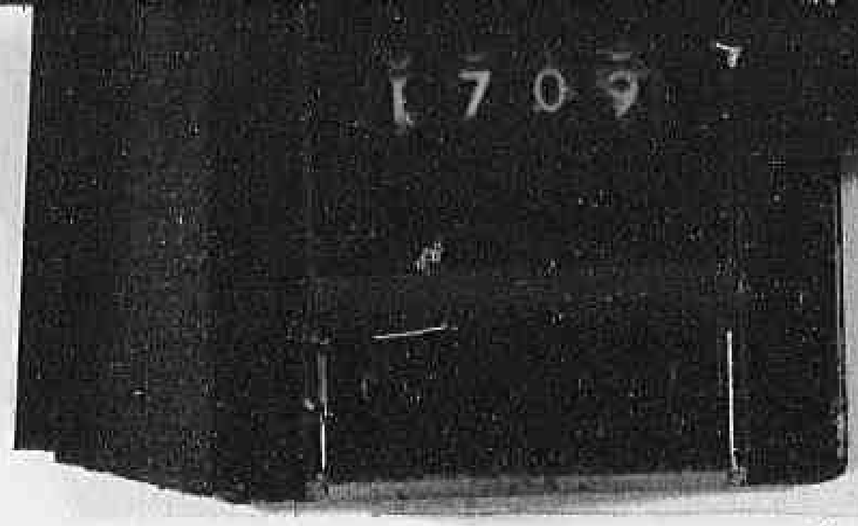
PUBLIC WORKS PROJECTS IN JUNE (A.M.G.)

	Initiated during month	C O S T (Lire)	Completed during month	C O S T (Lire)	In progress during month	
TABLE 'A'			Schemes of military priority			
Roads	49	135,060,600	7	5,830,000	60	
Bridges & Retaining Walls	19	90,772,000	--	--	31	
TOTAL	68	225,832,600	7	5,830,000	91	
TABLE 'B'		Schemes other than of Military Priority (but for which approval AC/AMG was required)				
Roads	113	106,543,900	39	22,640,200	166	
Bridges & Retaining Walls	79	162,923,600	7	1,925,000	139	
Debris Removal & Misc.	84	60,362,400	29	10,846,100	61	
Public buildings & Schools	83	57,478,904	13	1,269,000	68	
Water works, Sewer, Flood	224	280,839,652	37	22,342,700	271	
Housing	27	31,298.120	--	--	86	
TOTAL	610	699,629,576	125	58,995,000	811	1,
GRAND TOTAL	678	925,462,176	132	64,825,000	902	1,

Total bridges completed to date :- 1,711

Data from Toscana Region not available therefore not included. -



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	Initiated during month	C O S T (Lire)	Completed during month	C O S T (Lire)	In progress during month	C O S T (Lire)
Schemes of military priority						
	49	135,060,600	7	5,830,000	60	144,004,700
Walls	19	90,772,000	--	--	31	95,291,400
	68	225,832,600	7	5,830,000	91	239,296,100
Schemes other than of Military Priority (but for which approval AC/AMG was required)						
	113	106,543,900	39	22,640,200	166	154,749,100
Walls	79	162,923,600	7	1,925,000	139	307,883,300
Misc.	84	60,362,400	29	10,848,100	61	61,259,400
Schools	83	57,472,904	13	1,259,000	68	48,673,000
Flood	224	260,833,672	37	22,342,700	271	367,001,672
	27	31,293.120	--	--	86	75,163,240
	610	699,629,576	125	58,995,000	811	1,015,029,692
	678	925,462,176	132	64,825,000	902	1,254,325,792

Total bridges completed to date :- 1,711

Table "C"

Region not available therefore not included. -

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ELECTRICAL DIVISION

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1. Master Control Central Italy Grid.

The operation of the power plants and transmission system in Central Italy continues to be satisfactorily controlled from the Master Control Centre in Rome.

2. Italian Advisory Committees.

The usual monthly meetings of the committees were held. The most important item discussed at these meetings was the conversion of electrical service in Central and Southern Italy from the present 45 cycle system to 50 cycles. The conversion is scheduled for the latter part of July 1945 in Central Italy and in Southern Italy during December 1945. Another subject of discussion was the anticipated shortage of electric power in Southern Italy, and the necessary measures to deal with this shortage.

3. Electricity - North Italy.

A study is underway to consider the relationship between the electricity available and required in North Italy during the coming winter. Preliminary estimates, made immediately after liberation, indicated that a large surplus would exist. Thus far, the present study indicated the following points :-

1212

(a) An excess of electricity will exist in the Northeastern part of Italy, at least until 1 January 1946. Lack of coal for building

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(a) An excess of electricity will exist in the Northeastern part of Italy, at least until 1 January 1946. Lack of coal for building heating and for gas manufacture may cause abnormal loads on electric distribution systems of some localities.

(b) Inoperable transmission lines in the Adige river valley will prevent any appreciable output from the Adige plants reaching the

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Bologna area in the near future. These lines are out of service because the copper conductor is missing. Possibility of using aluminum is under consideration. Work is continuing on the Fortomaggiore-Forli' 60,000 Volt transmission line expected to be completed in August. As soon as this line is operating repairs will be started on a line which will feed Ravenna.

4. Central Italy Generation and Transmission.

The general condition of generation and transmission facilities in Central Italy has changed but little during the month. The peak load on the Central Italy Grid is about 120,000 KW and on the Leghorn-Florence Grid about 23,000 KW. Castelmadama generating station near Rome has started operation after rehabilitation and now produces about 3,000 KW.

Work is underway to overcome the operating difficulties being experienced with the Becenate turbine generator unit. This set, located at Acquoria Generating Station, near Tivoli, has been transplanted from another location where hydraulic characteristics were different.

A 20,000 KVA transformer at Terni is out of service because of an insulation failure after having operated only a few days. Similar trouble had been experienced previously.

Several factors caused the supply voltage to be very low at Ancona but in the early part of July, the situation was improved by making switching changes at Terni. These changes were possible because the Florence area was partially fed from the North and consequently now receives a reduced supply from Central Italy. Lack of rain with consequent lowered stream flow has curtailed the output of some small plants.

Approximately 30,000 KW will become available to Central Italy about the last of July when another unit at Galleto begins operation and when the supply from the North may be fully utilized. At about the same time it is contemplated increasing the frequency of the Central Italy zone from 45 to 50 cycles.

5. Southern Italy Generation and Transmission.

Supplying a peak load of more than 150,000 KW the Southern Italy electric power system is presently operating at maximum output. Load reduction by disconnecting feeders is often necessary. One consequence of the heavy loading is that the supply voltage is low. In Naples, as an example, the tension frequently drops to 6,100 volt on a 9,000 volt circuit.

Additional electricity in sizeable amounts cannot be made available to Southern Italy until fall, when a supply will be furnished by means of a transmission line from Central Italy now being repaired and when a 10,000 KW unit at Pescara III is scheduled to operate.

6. Interchange of power between Northern, Central and Southern Italy.

Reconstruction of one 120,000-volt and two 60,000 volt transmission lines linking North and Central Italy was continued and one of the 60,000 volt lines was finished during the month. Completion of this line had the immediate result of feeding a part of the Florence area from the North and relieving the demand on Central Italy by a corresponding amount. Furthermore since the northern supply is at 50 cycles, it causes the Florence water pumps to operate at increased speed, and at a consequent greater capacity.

Work is progressing on 150,000 volt transmission line linking Terni, Pescara and Arbia

The general condition of generation and transmission facilities in Central Italy has changed but little during the month. The peak load on the Central Italy Grid is about 120,000 KW and on the Leghorn-Florence Grid about 23,000 KW. Castelmadama generating station near Rome has started operation after rehabilitation and now produces about 3,000 KW.

Work is underway to overcome the operating difficulties being experienced with the Mecenate turbine generator unit. This set, located at Acquoria Generating Station, near Tivoli, has been transplanted from another location where hydraulic characteristics were different.

A 20,000 KVa transformer at Terni is out of service because of an insulation failure after having operated only a few days. Similar trouble had been experienced previously.

Several factors caused the supply voltage to be very low at Ancona but in the early part of July, the situation was improved by making switching changes at Terni. These changes were possible because the Florence area was partially fed from the North and consequently now receives a reduced supply from Central Italy. Lack of rain with consequent lowered stream flow has curtailed the output of some small plants.

Approximately 30,000 KW will become available to Central Italy about the last of July when another unit at Galleto begins operation and when the supply from the North may be fully utilized. At about the same time it is contemplated increasing the frequency of the Central Italy zone from 45 to 50 cycles.

5. Southern Italy Generation and Transmission.

Supplying a peak load of more than 150,000 KW the Southern Italy electric power system is presently operating at maximum output. Load reduction by disconnecting feeders is often necessary. One consequence of the heavy loading is that the supply voltage is low. In Naples, as an example, the tension frequently drops to 6,100 volt on a 9,000 volt circuit.

Additional electricity in sizeable amounts cannot be made available to Southern Italy until fall, when a supply will be furnished by means of a transmission line from Central Italy now being repaired and when a 10,000 KW unit at Pescara III is scheduled to operate.

6. Interchange of power between Northern, Central and Southern Italy.

Reconstruction of one 120,000 volt and two 60,000 volt transmission lines linking North and Central Italy was continued and one of the 60,000 volt lines was finished during the month. Completion of this line had the immediate result of feeding a part of the Florence area from the North and relieving the demand on Central Italy by a corresponding amount. Furthermore since the northern supply is at 50 cycles, it causes the Florence water pumps to operate at increased speed, and at a consequent greater capacity.

Work is progressing on 150,000 volt transmission line linking Terni, Pescara and Archi. When complete, the connection will permit the transmission of large blocks of power from Central to Southern Italy. This job is progressing slowly because sufficient transportation is lacking. If searches for additional trucks are immediately successful the line can be completed by the end of September.

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7. Electrical Reconstruction Team.

Under the direction of the Electrical Division, electrical reconstruction teams in Florence and Bologna are continuing to supervise the rehabilitation of damaged electrical facilities in the respective areas. Work in both zones is progressing well.

The Milan office of the Electrical Division is assisting the electrical companies in North Italy in a rehabilitation program and coordinating this work through the regional electrical officers.

8. Power allocations.

Studies were completed of the power availability during the remainder of 1945. The results of these studies were summarized in report form and submitted to the Allied Forces Local Resources Board (Italian).

Additional curtailment in Southern Italy will probably be necessary, and the matter is also being studied by the Ministry of Public Works, (Italian Government.)

9. Utility Rates.

Lombardia Region, acting on request of the Prefect of Milano, suggested an optional rate tariff for cooking service. The electrical companies concerned agreed to the proposal, and on our recommendation approval was given by the Price Group, Economic Section.

10. Supplies.

Many essential items of stores were in short supply during the month of June, particularly steelwork and industrial gases.

No acetylene gas was available during June because of the changeover of control of the local producing works. The Rome works are now controlled by F.A.S. and as the works are using Military raw materials, civilian firms cannot be supplied. This question has been taken up by the appropriate Sub-Commission.

Cement was in good supply, and all demands were met for Elect. reconstruction

Since the liberation of Northern Italy, many items of stores which were becoming scarce are now available, but the transportation problem again looms up, however, essential material has been shipped from North to Central Italy which has enabled work to be speeded up.

Generally, the progress of electrical reconstruction has been maintained despite difficulty in obtaining certain classes of material.

11. A.L.C. - Venezia Giulia.

The chief of the Electrical Division was appointed a member of the Allied Mission which was organized to meet with a similar mission created by the Jugoslav Government for the purpose of discussing numerous industrial and financial problems in Venezia Giulia.

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REGIONAL REPORTS

EMILIA

Reports submitted by the Regional Engineers are briefly summarized in the following pages :-

Region	Page
Emilia	10
Liguria	12
Piemonte	12
Lombardia	13
Venezie	14

The number, cost and status of all projects in the several regions are included in the Summary tables on pages: 4, 5, & 6.

EMILIA - (Regional Engineer: Major N. W. HYLAND)

Public Works & Utilities.

General.

Progress on construction and maintenance of roads and bridges was slow and unsatisfactory due to shortage of materials and transport and lack of P.O.L. Other divisions of activity took higher priority for such transport as was available. Weather conditions were ideal for construction of bridges as streams are low and by-passes can be readily provided by small or temporary structures. Later these stream crossings will not be possible. Since the removal of all Bailey has been ordered, the situation for the winter may be serious as some areas may be isolated.

Military Highways.

Chief Engineer District 1 is functioning in Forli, Ravenna, Ferrara and the assigned part of Bologna province. On all military priority projects in this area, the required controlled materials and transport are being furnished by the various responsible Military Units in quantities sufficient to keep the work going.

The same situation obtained in 5th Army area until 18 June, but since that time, contractors working on Military projects have had to supply their own transportation. The P.O.L. situation makes such operation extremely difficult.

Other Highways and Bridges.

Progress on all works other than military is seriously hampered by lack of transport and critical materials, though supplies of the latter have started to come through. Therefore, any improvement in the transport and POL situation will be reflected in more satisfactory progress on all works.

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Liguria 12

Piemonte 12

Lombardia 13

Venezie 14

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Transport assistance from the military is both a diminishing and an unknown quantity, and civilian transport is at present inadequate. Therefore, the success of the Road and Bridge restoration program projected by this department, depends in a large measure, upon an allocation of transport equipment and fuel.

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Housing and Public Buildings.

Housing committees are now functioning in every Province of the Region. Communal Committees have been organized and are now in full activity, following instructions given by Genio Civile in every town and also in small Communes. Projects are submitted to the above mentioned committees and resubmitted through the Genio Civile to this office for final approval and financing. Lack of materials is still the main problem. Control of materials has been now turned over to materials section fifteen days ago, and proper channel is now followed to avoid private requests for works not approved or financed by this H.Q.

In COTIGNOLA (Ravenna Province) special measures are under consideration following the results of the Communal Committee unable to face the rehousing problem. Figures show that the destruction of the town is nearly complete, reaching 95%. Small works only have been initiated for the accomodation of about 300 people against a roofless population of 3,000 persons.

Drainage and flood control.

This section has taken over during this month all repair and maintenance work which was previously carried out by Army units under District 1. This section has also continued the supervision of the 39 Bonifices of the Region; their conditions have slowly improved.

Water Supply and Sewers.

The water supply in Bologna has been augmented by making available an additional 1,000,000 gallons per day from the Setta aqueduct, thus restoring the city water supply to 35,000 cbm/day (9.5 MGD) or about 70% of the prewar normal city water demand. Surveys and reports are being made on all cities in the area with particular reference to Ferrara, Imola, Forli, Rimini and Ravenna. Sewer repairs at Bologna and Rimini are progressing at a pace dependent on the supply of materials and transport. Canale Reno and Savena, principal sewage collectors through Bologna city, have been repaired and are diluting the exposed solid sewage 3 Km. North of the city, thus eliminating the health hazard existing there previously.

Miscellaneous.

Contractors and Engineers in Emilia Region are believed to be capable and competent to handle the program of reconstruction ahead of them, provided transportation and P.O.L. supplies are made available to them. Material supplies are improving and the volume of construction will increase when transport can be had. Planned programs are such that there should be no unemployment problem in this area.

Electricity.

Supplemental Engineer officers were added to the region to speed up the transmission of power available in the North to areas in short supply.

The status of transmission line repairs during the month was as follows:

Line	Voltage	Date completed
Rovigo - Ferrara	50 KV	4 June
Ligonchio - Gallicano	60 KV	10 June
Palvello - Portomaggiore	(120) KV	21 June
		28% complete

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Ferrara - Portomaggiore	50 KV	50% complete

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The situation in the Romagnola area (Ravenna, Forli, Ferrara) is now in hand with the aid of Military units in repairing the 50 KV line from FORLI to PORTOMAGGIORE. Work is progressing normally on this line. Wire for the electrical systems in Bologna and surrounding area has begun to arrive from the redrawing plant near Brescia. A priority schedule has been established and it is hoped that this system will allow the most urgent jobs to be completed first.

LIGURIA - (Port Construction Engineer: Major C.F.S. GOLLSON, R.E.)

Public Works & Utilities.

General.

During June all the Ports have been opened to a greater or lesser extent. Mines are still prevalent at Genoa and La Spezia but Savona has been more successfully cleared and coal ships are entering now. Ships are also entering Genoa in certain specified areas.

Inspection Tours.

Visits have been made to Turin, Savona, La Spezia and Rome during the month and also a short inspection of Sestri, S. Margherita and Portofino with Eng. Salvarezza.

LA SPEZIA.

During the month a direct channel has been swept from the outer mole to the Arsenal Navale. This allows small craft to move in and out of the Italian Naval Section. About 2,200 men are being employed in the Naval Arsenal clearing debris and rebuilding some workshops. A project for some repair work at the Mercantile Port has been received and will be approved in due course.

PIEMONTE - (Regional Engineer: Col. C. R. BIRCHETT, C.B.)

Public Works and Utilities.

General.

Lack of transport has hampered the work of officers and Italian staff. However the location of Todt yards and depots is being studied by the Italian engineers and the housing program is being worked on by Italian engineer staff. Italian road engineers attached to this office are doing an excellent job. Efforts are being made for the Prefect to requisition cars for the use of this staff.

Highways.

It was decided that the privately owned Autostrada would be maintained by the State and all projects could be channeled through the Ingegnere Capo of Viabilita'. This was concurred in by Lombardia Region. The region was promised 811 tons of bitumen for military highways and some German trucks by 5th Army. To date 20 tons of bitumen have been received and no trucks.

Public Services.

The trams in the cities are all operating. Lack of special steel for

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Public Services.

The trams in the cities are all operating. Lack of special steel for tyre repair is being felt. The equipment is old due to bombing of car sheds, and destruction of rolling stock. The bus services are in operation on a limited scale due to lack of vehicles gas and tires.

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Efforts are being made to locate all Todt yards as it was found that the yards were not being reported to us. One was located with a pontoon bridge ready for installation. These pontoons are now being used as a ferry service. Bitumen is in short supply and is badly needed.

All officers but two now have cars. No extra cars are available for the use of Italian Engineers, therefore the use of Italian Engineers on a large scale directed by A.C P.W.U. orders is not feasible. Twenty two cars have been obtained from Fiat and released to the Genio Civile. Twelve cars have been obtained and released to the Power Companies. The cost of road transport is high and is retarding operations. Clauses are being inserted in contracts to provide for changes in unit costs of wages and transport as it is hoped that trucks will be made available by Army or A.C. for P.W.U. use.

Miscellaneous Works.

A survey of water transport in the area has been made and it was found that the Po was navigable for a short distance for craft of 90 tons burden in the lower reaches.

Electricity.

The electrical consumption has risen from 240,000 KW in May to 270,000 in June and is now approximately 315,000 KW. Further it is expected that the increase will continue until fall when it will rise sharply. When coal is available for industries a sharp increase is expected. Transport for power companies has been an obstacle. One 7 ton truck and 12 ton trailer costs the power company $ 250,00 a day rental and gas. Tires for power company cars and trucks are hard to get.

LOMBARDIA - (Regional Engineer: Col. C. F. BOLTON, F.A.)

Public Works & Utilities.

General.

Milan City remains the key problem, a considerable amount of demolition and clearance of debris still being necessary. The housing situation is difficult as there is considerable overcrowding in the city. The Housing Committee has been formed but to date has produced no tangible results. It has therefore been recommended that an autonomous sub-committee should be formed for each Quartiere, empowered to make a survey and proposed programme for its Quartiere, subject only to policy control by the central committee.

Military Highways.

The only priorities established to date within the Region are :

Route 11.1 (autostrada) Milano - Brescia.

Route 11 Brescia - S. Benedetto.

Route 9 Piacenza - Milano.

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Cantoniere maintenance on these routes has been strengthened but has been hampered by delays in delivery of bitumen from Military controlled sources. Representations have been made pointing out that road surfaces are suffering in the meantime and early deliveries of bitumen are now expected.
Bridges across the river Po are in hand at 3 points on SS 10 and another

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across river Oglio on SS 11.1 (autostrada).

Housing.

Many projects for urgent works of demolition and clearance of debris are well in hand. A number of housing repair projects initiated prior to liberation, mainly "Case Popolari" in Milan city, are being continued, pending the commencement of new programme to be prepared by Communal Housing Committee.

Gas.

All of the gas plants are shut down due to lack of fuel. During this period of inoperation some of the gas companies are making much needed repairs to their plants. Arrangements should be made if possible to have some coal available to the gas plants by 1 September '45 in order that the furnaces can be preheated and they can start production and distribution of gas by the time cold weather arrives.

Electricity.

The Utilities Section has been occupied in assisting the electric utilities companies in the Region in obtaining gasoline, automobile and bicycle tires and other essential materials.

VENEZIE. (Regional Engineer: Major W. KNIGHT, R.E.)

Public Works and Utilities.

General.

In the early part of the month the number of projects submitted and approved were not as numerous as was expected. This was due to the Genio Civile not yet having become familiar with the procedure for preparing and submitting projects and preparing budget estimates, also due to their submitting rates of wages which did not conform to the policy laid down by A.M.G.

Numerous conferences were held with the Magistrato alle Acque and the Inspector Generals, and visits made to the Genio Civile in the Provinces, in order to familiarise them with the procedure, and policy. It is thought that the difficulties have been cleared, and that smoother working will prevail.

The progress in getting committees for "Housing the Roofless" operating has been slow, but they now understand what is required of them and the next month should see better progress. There has been a general outcry over the rate of wages, but the work people have so far been kept quiet as they have been informed that the wage rates are being investigated, and there is likelihood of an early increase. The progress of work already in hand has generally made good headway, and the dangers of flooding from badly damaged embankments has been averted.

There is a good deal of debris clearance to be done, and the progress in this direction has been slow, but pressure has been applied to get more workmen employed, and next month should show a great improvement.

Irrigation canals which suffered damage and jeopardised the crops, have been repaired in time to save the crops.

The progress throughout the Region has been quite satisfactory generally, and the Genio Civile with one or two exceptions have shown every

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Irrigation canals which suffered damage and jeopardised the crops, have been repaired in time to save the crops.

The progress throughout the Region has been quite satisfactory generally, and the Genio Civile with one or two exceptions have shown every willingness to get under way. Owing to stocks of cement now being exhausted, public works projects will be held up as non production is due to the lack of coal.

Electricity.

The available generating capacity was increased during the month by the

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repairs and return to full service of four plants totalling 37,600 KW capacity. The generating capacity of the region is now in excess of 95% of the pre-war capacity.

An additional 162 Kilometers of transmission lines were returned to service during the month. This consisted of 54 Kilometers of 150 KV lines and 108 kilometers of 50 KV lines.

E. J. Ristedt

E. J. RISTEDT,
Colonel, C.E.,
A/Director.

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By Command

E. J. KISTLER,
Colonel, C.E.,
A/Director.

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Ext 451

Ref: 5402/267/EC

17 July 1945

SUBJECT: Public Works & Utilities Monthly Report for May

TO : Economic Section

1. Reference is made to a statement in the above-mentioned report on page 12, under "Piemonte and Liguria," to the effect that trams in the cities are operating. The transportation situation is apparently satisfactory. However, transport for Genio Civile and Italian Engineers is almost non-existent.

2. It would be appreciated if this office were informed what steps are being taken in the Region to correct this situation.

3. The Executive Commissioner would also like to be informed as to what is the present situation about French loot of electric power from Liguria.

4. An early reply would be appreciated.

A. B. ARNOLDY.
Chief Staff Officer
To Executive Commissioner

(Copy to: 5403/EC. ACTION)

RV

57403 Ex Com (262)

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

10 June 1945.

23 JUN 1945

MONTHLY REPORT - MAY

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S U M M A R Y

PUBLIC WORKS DIVISION.

Highways in general in the Northern Regions are in fair condition and it is not anticipated that serious difficulties will be encountered in repairs and maintenance.

Temporary bridges or diversions have been made on all principal routes.

Public utilities have not been seriously impaired and repair work is well in hand.

Work projects in certain areas will have to be initiated to relieve unemployment and it is considered that this can be accomplished in useful forms of Public Works activities.

Italian Engineer Organisations are working satisfactorily. It is estimated that nearly 400 Communal Housing Committees are now organised and working. A total of 17,739 housing repair projects have been started and 8,573 completed. The value of work on housing to the end of May amounts to 1,859 million lire.

The total number of bridges completed is 1,652.

ELECTRICAL DIVISION.

Master Control Central Italy Grid.

The Master Control Centre in Rome continues to satisfactorily control the power plants and transmission system in Central Italy. Initiated by the Electrical Division of this Sub-Commission it will remain as a permanent organisation in the development of the Italian Electrification.

Italian Advisory Committees.

At the last meeting of the Central Italy Advisory Committee Allied Commission advised that serious consideration be given to the standardization of frequency at 50 cycles throughout Central and Southern Italy. This is dealt with in detail in the main report.

Northern Italy.

After an inspection of the Electrical power situation in Northern Italy discussion took place with the Electrical Companies, and it was found that ample Electric Power is available in the whole of the Northern area. About 10 % of the Generating Plants were damaged but half of these will be repaired within the next three months. The French have taken over the control of three power stations in the Liguria Area and power from these is not now available to Northern Italy, however it is not considered that this loss will have any detrimental effect on the industrial situation for the present, as the demand for power is less than normal.

Utility Rates.

Approval was given to rate increases for the Gas Company at Florence

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Utility Rates.

Approval was given to rate increases for the Gas Company at Florence and three Electric Companies in Toscana Region during the month.

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GENERAL.

The Director, the Chief of the Public Works Division and the Chief of the Electrical Division visited all the Northern Regions during the month. The Regional Engineers have set up their Headquarters in their respective Regions and surveys of the general conditions of Public Works, Electric Power and Utility Services have been made.

PUBLIC WORKS DIVISION

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2	Inspections.....	3
3	Housing	3
4	Transport and Construction Equipment	3
5	Summaries of Projects - Tables "A", "B", & "C".....	5, 6, 7.

1. Conditions - North Italy.

Lt-Col. V.S. Thompson, Chief of the Public Works Division, accompanied by Capt. R.W. Shepherd, visited the following Regions during the month:

Toscana, Emilia, Venecia, Lombardia, Piemonte-Liguria.

General conditions of highways, bridges, housing and Public Works were investigated as thoroughly as limited time would allow with supplemental information being obtained from Regional Engineers. As a result of these investigations the following observations can be noted:

(a) The general condition of all main highways is encouraging as compared to conditions found upon liberation of Central and Southern Areas. Contractors are at work on most roads and some materials are already available. Action has been taken by Regional Engineers to ensure that road maintenance forces are reactivated in all sections. Very little bitumen is now available, which is retarding activities, but some stocks can be expected from military sources on roads of military significance. The bitumen picture for strictly civil roads is not encouraging.

(b) Where bridges have been blown on critical routes, temporary structures or diversions have been provided. Bailey bridges

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PUBLIC WORKS DIVISION

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(b) Where bridges have been blown on critical routes, temporary structures or diversions have been provided. Bailey bridges are in place at many locations, but since the Military Units no longer consider Bailey removals as urgent it is believed that bridging can be left in place during permanent reconstruction. Projects for permanent reconstruction have been or are being processed rapidly in the order of priority established by the military and by most urgent civilian requirements.

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(c) Damage to utilities is widespread but not generally of a serious nature. Surveys have been undertaken in all Regions of damage and projects are being initiated covering corrective work. Water problems are receiving first attention and no serious trouble is anticipated.

(d) In several areas in the North, Regional Engineers have been requested to plan work projects primarily for the relief of unemployment. This program is being given close study by Regional Engineers and this Headquarters. Every indication is that an adequate program can be developed without resorting to ineffective or inefficient types of activities. It has been requested of Regions that when projects designed primarily for relief of unemployment are submitted here for approval they shall be signed by the Provincial or Regional Commissioner as well as the Regional Engineer.

(e) Repairs to Bonifiche present an urgent problem in many areas. Stream dykes have been undermined or blown by the enemy and many canals blocked by bridge demolition. Such conditions are being treated as emergencies and corrective work is under way.

(f) Italian Engineer Organisations are functioning in a very satisfactory manner. Personnel appears to be fairly adequate in strength and well qualified technically. In general reconstruction problems are being approached by local Engineers with energy and resourcefulness.

2. Inspections.

During the month inspections of the following highways were made by Headquarters Officers:-

Route 7 Rome to Naples
Route 6 Rome to Capua
Route 2 Rome to Florence
Route 65 Florence to Bologna
Route 64 Bologna to Ferrara
Route 16 Ferrara to Padua
Route 11 Padua to Venice
Route 11 Padua to Brescia
Route 11 - 1 Brescia to Milan
Route 11 - 1 Milan to Turin
Route 10 Turin to Alessandria
Route 35 Alessandria to Genoa
Route 1 Genoa to Rome.

Unnecessary to mfd Parliament dup

An inspection was also made of the Port of Genoa where rehabilitation works are under way.

3. Housing.

The Housing Decree mentioned in previous reports continues to produce gratifying results, particularly in Italian Government Territory. By the end

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Route 35 Alessandria to Genoa
Route 1 Genoa to Rome.

An inspection was also made of the Port of Genoa where rehabilitation works are under way.

3. Housing.

The Housing Decree mentioned in previous reports continues to produce gratifying results, particularly in Italian Government Territory. By the end of May approximately 400 Communal Housing committees were organized and functioning, with 17,739 repair projects having been initiated of which 8,573 have been completed. Work initiated to date amounts to 1,859 million lire.

4. Transport and Construction Equipment.

(a) Transport for the hauling of construction and maintenance materials remains critically inadequate. This situation is being aggravated by the withdrawal of well equipped Military

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Engineer Units from the Theatre. In many Areas civilian contractors were dependent on such Units for most of the required transport. Representation is being made thru channels for vehicles to be made available immediately.

(b) Activities of Regional Engineer Officers are still being seriously restricted due to an inadequate number of vehicles being made available. Functions cannot be effectively carried out until individual transport is assigned to each Officer. The situation became so critical during May that it was necessary to place a number of " jeeps ", which are consigned to the Italian Ministry of Public Works, with Regions on a temporary loan basis.

(c) The bulk of the road machinery recently received has now been transferred to the Ministry of Public Works and is in operation. Training schools are being conducted where instruction is being given to employees of the Ministry on the proper operation and maintenance of the equipment.

5. The following tables show under main classifications the present aggregate volume of Public Works throughout Italian Government Territory and A.M.G. Territory:

(b) Activities of Regional Engineer Officers are still being seriously restricted due to an inadequate number of vehicles being made available. Functions cannot be effectively carried out until individual transport is assigned to each Officer. The situation became so critical during May that it was necessary to place a number of " jeeps ", which are consigned to the Italian Ministry of Public Works, with Regions on a temporary loan basis.

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Map to show Progress of Works (.....)

	Initiated during Month	COST (Lire)	Completed during Month	COST (Lire)	In progress during Month	
TABLE 'A'		Schemes of Military Priority				
Roads	60	263,283,600	6	16,210,000	30	3
Bridges & Retaining Walls	33	101,471,000	11	16,022,000	61	11
TOTAL	93	364,754,600	17	32,232,000	91	14
TABLE 'B'		Schems other than of Military Priority (but for which approval AC/AMG was required)				
Roads	28	21,155,000	8	3,096,600	56	4
Bridges & Retaining Walls	83	121,090,933	28	17,292,200	240	26
Public Buildings, Schools, etc.	63	31,156,210	16	3,818,600	184	9
Debris Removal & Misc.	47	37,074,695	34	19,880,485	197	9
Water works, Sewers, & Flood Control	175	198,310,985	30	16,854,100	265	23
Housing	4	1,392,000	4	6,461,529	196	13
TOTAL	400	410,179,823	120	67,423,514	1,136	86
TABLE 'C'		Schemes handled independently by Italian Agency				
Roads	30	4,772,057	29	4,472,712	61	
Bridges & Retaining Walls	58	7,413,200	63	6,819,544	118	1
Public Buildings, Schools, etc.	44	4,749,280	54	4,674,913	146	1
Debris Removal, & Misc.	39	5,148,267	54	3,941,389	125	1
Water works, Sewers & Flood Control	36	4,567,560	25	2,681,490	76	
Housing	4	482,000	2	198,000	4	
TOTAL	211	27,132,344	227	22,788,048	530	5
GRAND TOTAL	704	802,067,767	364	122,443,562	1,757	1,07

Total Bridges completed to date : - 1,652.

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FULL TO DATE PROJECTS OF LAW (.....)

Initiated during Month	C O S T (Lire)	Completed during Month	C O S T (Lire)	In progress during Month	C O S T (Lire)
Schemes of Military Priority					
60	263,283,600	6	16,210,000	30	31,085,000
33	101,471,000	11	16,042,000	61	114,342,690
93	364,754,600	17	32,252,000	91	145,427,690
Schemes other than of Military Priority (but for which approval AC/AMG was required)					
28	21,155,000	8	3,096,600	56	47,705,200
83	121,090,933	28	17,292,200	240	267,913,994
63	31,156,210	16	3,858,600	184	93,986,287
47	37,074,695	34	19,880,485	197	91,708,019
175	198,310,985	30	16,854,100	269	234,600,543
4	1,392,000	4	6,461,529	196	130,697,600
400	410,179,823	120	67,423,514	1,136	866,611,643
Schemes handled independently by Italian Agency					
30	4,772,037	29	4,172,712	61	9,777,006
58	7,413,200	63	6,819,544	118	14,855,201
44	4,749,280	54	4,674,913	116	13,453,433
39	5,148,267	54	3,941,389	125	10,783,949
36	4,567,560	25	2,681,490	76	9,007,146
4	482,000	2	198,000	4	482,000
211	27,132,344	227	22,788,048	530	58,358,735
704	802,067,767	364	190,443,562	1,727	1,070,398,068

Total Bridges completed to date : - 1,652.

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TABLE "B" SUMMARY OF REPORT ON PROGRESS OF HOUSING REPAIRS

Province of: Agrigento - Avellino - Bari - Benevento - Brindisi - Cagliari - Caltanissetta - Campobasso - Catania - Catanzaro - Chieti - Cosenza - Enna - Foggia - Frosinone - L'Aquila - Lecce - Littoria - Matera - Messina - Napoli - Nuoro - Palermo - Pescara - Potenza - Ragusa - Reggio Calabria - Rieti - Roma - Salerno - Sassari - Siracusa - Taranto Teramo - Trapani - Viterbo - (1).

THIS REPORT COVERS THE MONTH OF APRIL 1945.

	1 Started before April.	2 Started during April.	3 Total Col. 1 & 2	4 Approx. cost (In thousand Lire.)	5 Completed by 30 Apr. 1945.	6 Balance under way or less
Projects done by the owners:						
up to 30,000 Lire	5,204	1,175	6,379	180,875	3,561	2,818
from 30,000 to 150,000 Lire	2,460	1,238	3,698	394,330	1,399	2,299
from 150,000 to 300,000 Lire	799	329	1,128	245,677	428	700
from 300,000 to 1,000,000 Lire	381	78	459	252,661	91	368
over 1,000,000 L.	72	27	99	288,531	12	87
TOTAL	8,916	2,847	11,763	1,262,074	5,491	6,272
Projects done by Genio Civile:						
up to 30,000 Lire	3,520	141	3,661	75,136	2,277	1,384
from 30,000 to 150,000 Lire	1,230	232	1,462	121,990	628	834
from 150,000 to 300,000 Lire	432	107	539	91,756	134	405
from 300,000 to 1,000,000 Lire	237	39	276	155,885	41	235
over 1,000,000 L.	44	14	58	132,691	2	56
TOTAL	5,463	533	5,996	577,458	3,082	2,914
GRAND TOTAL	14,379	3,380	17,759	1,859,532	8,573	9,186

COMMUNE COMMITTEES

	Preceding total	Total this month	New total
Working Committees	311	3	314
Advisory Committees	83	3	86
Communes as yet requiring committees	108	1	109

(1), Matera and Lecce nil reports.- Data for Naples and Caserta still to be summed up. Frosinone and Cassino not yet computed.- Bari, Nuoro, Palermo and Sassari Provinces data missing.- Computions from the provinces of Agrigento, Cagliari, Campobasso, Catania, Enna, Foggia, L'Aquila, Littoria, Messina, Napoli, Palermo, Pescara, Roma, Salerno, Sassari Siracusa and Teramo for the month of March to be amended. Data for the "Institute Case Popolari" of Messina and "Ente Edilizio" of Reggio Calabria is shown in the item "Works carried out by owners".-

	[illegible] April.	[illegible] April.	[illegible] 1 & 2	[illegible] Lire.)	[illegible] 1945.	[illegible] less
Projects done by the owners:						
up to 50,000 Lire	5,204	1,175	6,379	180,875	3,561	2,818
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PUBLIC WORKS PROJECTS I ITALIAN GOVERNMENT TERRITORY FOR THE MONTH OF MAY 1945

TYPE OF PROJECTS	Works initiated during Month	C O S T (Lire)	Works completed during Month	C O S T (Lire)	Works in progress during Month	C O S T (Lire)
TABLE 'A'		SCHEMES OF MILITARY PRIORITY				
Roads	5	24,306,418	13	15,800,000	208	654,070,106
Bridges	4	3,460,000	15	22,702,842	63	124,469,05[illegible]
TOTAL (A)	9	27,766,418	28	38,502,842	271	778,539,15[illegible]
TABLE 'B'		CIVILIAN WORKS				
Roads	105	82,090,163	64	38,705,557	390	452,216,26[illegible]
Bridges	91	99,102,838	32	20,605,352	281	387,270,40[illegible]
Public Buildings	117	98,923,161	64	14,248,820	400	323,779,13[illegible]
Schools	37	30,[illegible]6,866	30	12,372,099	166	149,897,36[illegible]
Churches & Charitable Inst.	86	55,186,095	79	10,439,332	218	139,926,02[illegible]
Debris Removal, Etc.	126	49,205,696	84	269,531,950	343	168,254,81[illegible]
Aqueducts, Sewers	36	45,554,051	32	8,450,035	132	100,303,60[illegible]
Hydraulic Works	2	469,113	4	[illegible].493	41	24,934,305
Meritime Works	27	45,727,424	7	8,136,035	98	85,162,83[illegible]
Housing Repairs	193	155,895,260	159	61,477,136	989	553,936,175
Bonifica	61	48,163,846	10	20,480,000	130	302,625,62[illegible]
TOTAL (B)	881	710,915,335	525	465,099,719	3,190	2,708,306,587
GRAND TOTAL (A & B)	890	738,681,753	553	503,602,561	3,461	3,486,845,74[illegible]

(1745)

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PUBLIC WORKS PROJECTS IN ITALIAN GOVERNMENT TERRITORY FOR THE MONTH OF MAY 1945

	Works initiated during Month	C O S T (Lire)	Works completed during Month	C O S T (Lire)	Works in progress during Month	C O S T (Lire)
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	9	27,766,418	28	38,502,842	271	778,539,153
CIVILIAN WORKS						
	105	82,090,163	64	33,705,557	390	452,216,262
	91	99,102,838	32	20,605,352	281	387,270,408
	117	98.923.161	64	34,218,820	400	323,779,138
	37	30,936,366	30	12,372,009	160	149,897,363
	86	55,186,095	39	10,439,332	218	139,926,027
	126	49,205,696	84	269,531,950	343	108,254,840
	36	45,554,051	32	8,450,035	132	100,303,609
	2	469,113	4	493	41	24,934,305
	27	45,727,424	7	8,136,035	98	85,162,832
	193	155,895,260	159	61,477,136	989	553,936,175
	61	48,163,846	10	20,480,000	130	302,625,628
	881	710,915,335	525	465,099,719	3,190	2,708,306,587
	890	738,681,753	553	503,602,561	3,461	3,486,845,740

Table "C"

USA

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ELECTRICAL DIVISION

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1. Master Control Central Italy Grid.

The operation of the power plants and transmission system in Central Italy continues to be satisfactorily controlled from the Master Control Centre in Rome. This Control Centre initiated by the Electrical Division will remain as a permanent organisation in the Italian electrification development.

2. Italian Advisory Committees.

Regular meetings of the Advisory Committees on Electric Power continue to be held in Sardinia, Sicily, Southern Italy and Central Italy. An important matter was raised at the last meeting of the Central Italy Advisory Committee when they were advised by Allied Commission to give serious consideration to the standardization of frequency throughout Central and Southern Italy. It was pointed out that within a few months a large amount of power would be available from Northern Italy at 50 cycle frequency and that it was necessary to arrange for the Central Italy Grid to be at a similar frequency, in order that this imported energy could be distributed together with the present power on a priority basis. Furthermore, it was stressed that the raising of frequency from 45 to 50 cycles should be carried out before the industrial rehabilitation made the task more difficult. The committee recommended that the frequency of supply in Central Italy should be raised from 45 to 50 cycles when the power from Northern Italy became available. This is expected to be about the end of July.

The question of frequency standardization will be discussed at the next meeting of the Southern Italy Advisory Committee where it is considered a similar change in frequency should take place, in order to take advantage of 50 cycle power which will be available for transmittal from Central Italy at about October 1945 and also to achieve this before the complete industrial recovery.

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The operation of the power plants and transmission system in Central Italy continues to be satisfactorily controlled from the Master Control Centre in Rome. This Control Centre initiated by the Electrical Division will remain as a permanent organisation in the Italian electrification development.

2. Italian Advisory Committees.

Regular meetings of the Advisory Committees on Electric Power continue to be held in Sardinia, Sicily, Southern Italy and Central Italy. An important matter was raised at the last meeting of the Central Italy Advisory Committee when they were advised by Allied Commission to give serious consideration to the standardization of frequency throughout Central and Southern Italy. It was pointed out that within a few months a large amount of power would be available from Northern Italy at 50 cycle frequency and that it was necessary to arrange for the Central Italy Grid to be at a similar frequency, in order that this imported energy could be distributed together with the present power on a priority basis. Furthermore, it was stressed that the raising of frequency from 45 to 50 cycles should be carried out before the industrial rehabilitation made the task more difficult. The committee recommended that the frequency of supply in Central Italy should be raised from 45 to 50 cycles when the power from Northern Italy became available. This is expected to be about the end of July.

The question of frequency standardization will be discussed at the next meeting of the Southern Italy Advisory Committee where it is considered a similar change in frequency should take place, in order to take advantage of 50 cycle power which will be available for transmittel from Central Italy at about October 1945 and also to achieve this before the complete industrial recovery.

3. Electrical Reconstruction Committee.

No meeting of the Electrical Reconstruction Committee was held during the month of May 1945. With the cessation of hostilities in this Theatre the need for the Committee has ceased and A.F.H.Q. Administrative Memorandum No. 32 dated 30th May 1945 states as follows:

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ELECTRIC POWER REHABILITATION

AFHQ Administrative Memorandum Number 58, 1944, and Section I, Administrative Memorandum Number 7, 1945, are rescinded.

1) The Electrical Reconstruction Committee created by above Administrative Memorandum is dissolved.

2) The functions of electric power rehabilitation are transferred to the Allied Commission.

3) Military agencies engaged in electric power rehabilitation activities will coordinate their plans with the Allied Commission."

4. Electrical Reconstruction Team.

In addition to the Electrical Reconstruction Team which has been located at Florence for some months, arrangements have now been made for two officers to reside at Bologna. The purpose of this is to concentrate on the reconstruction of the transmission line between Bologna and Florence where very serious damage occurred in this battle area. This reconstruction work is considered of the greatest importance for the reason that it will make available about 100,000 KW. of additional power for Central Italy. It is anticipated that the first of the three lines will be completed about the end of July, the final interconnection being through by September/October.

5. Northern Italy.

An inspection was made during the month of the electrical power position in Northern Italy. Discussion took place with the electrical companies and it is now clear that ample electric power facilities are available in the whole of the northern area. About 10 % of the generating plants were damaged partly by partisan activities, but of these 50 % will be repaired within three months. The French have taken over the control of 3 Power Stations in the Liguria area and the power from these is not now available in Northern Italy. Since the industrial demand for power is considerably less than normal, it is not considered that this loss of capacity will have any detrimental effect on the power position in Northern Italy for the present.

6. Power Allocation.

The monthly meeting of the Electric Power Committee of the Allied Forces Local Resources Board was held on 29th of May. Apart from some minor increases, no additional power was allocated from the Central Italy grid for the month of June 1945. Additional allocation was made from the Leghorn grid, the most important of which included 2,000 Kw. for the wire-drawing plant at Bargia. This plant will be in a position to re-draw salvage copper for transmission lines, generators and transformers. The plant is located near Florence which is advantageous for rehabilitation work in Central Italy. Heretofore all such work had to be done at Naples. An allocation was granted to the Crotone Chemical Works in Southern Italy for the month of June 1945, but this has since had to be curtailed to the 15th June due to the breakdown of generating plant in Southern Italy.

7. Generation and Transmission in Central Italy.

The first 120,000 and 150,000 V. electric transmission lines in Central Italy to function after the war began operation during the month. Both lines are used

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7. Generation and Transmission in Central Italy.

The first 120,000 and 150,000 V. electric transmission lines in Central Italy to function after the war began operation during the month. Both lines are used in a scheme to connect Florence with the rest of Central Italy. The immediate effect of the lines has been to deliver energy to Florence at a higher voltage

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and at greater efficiency. Later they will permit large power interchange between North and Central Italy. In connection with this, repairs to two large transformers have been completed which have been put into service. Other work in co-operation with the Military Districts is being pressed forward, particularly in the Forli' area where electricity is in short supply. Two instances of equipment failure occurred during the month; A 20,000 KVA. transformer at the Galleto plant of the Terni Company became unavailable because of a damaged coil. The unit is expected back in service by the middle of June. At Orichella in Southern Italy a 20,000 KVA. generator failed and will be out of service for some months.

8. Utility rates.

Rate increases were approved for the gas company at Florence and for three electric companies operating in Toscana Region during the month of May 1945. Applications for rate increases from utility companies continue to be received and all matters pertaining to rate increases in Italian Government territory are now handled by the Interministerial Price Committee of the Italian Government.

9. Supplies.

During May all the demands for supplies for rehabilitation works were met, but difficulty arose owing to the heavy demands made by the Military railway services. The situation with regard to the oxygen and acetylene has eased and supplies are now forthcoming.

REGIONAL REPORTS

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Reports submitted by the Regional Engineers are briefly summarized in the following pages:-

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Emilia	11
Piemonte & Liguria	12
Lombardia	13
Venezia.	13

The number, cost, and status of all projects in the several regions are included in the Summary tables on pages: 5, 6, & 7.

TOSCANA - (Regional Engineer - Lt-Col. F.S.L. LEE, R.E.).

Public Works and Utilities.

The handing over of Florence, Pistoia, Lucca and Apuania to Regional

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TOSCANA - (Regional Engineer - Lt-Col. P.S.L. LEE, R.E.)

Public Works and Utilities.

The handing over of Florence, Pistoia, Lucca and Apuania to Regional control has greatly increased the amount of reconstruction to be done in these severely damaged areas.

Water projects in Pistoia, Florence and Livorno are under way. Large projects of interest to Agriculture and Public Health have been approved. The

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housing decree has been explained by personal visits to various local committees, and officials in all provinces.

When power from the North becomes available in the very near future the operation of the pumps of the Florence City water works will be more satisfactory.

Natural gas in in good supply - artificial gas continues critical owing to supply of coal.

Street cars are now in wounds and steps are being taken to use the tramway for transportation of goods and materials.

211 Public Works Projects were initiated during the month and handled independently by the Italians. A total of 530 projects have now been initiated and 231 completed to date.

124 projects for roads and bridges were initiated during the month and there are 274 in all, 29 have been completed to date.

EMILIA - (Regional Engineer - Lt-Col. W.A. SPANN, S.E.)

Public Works and Utilities.

The military highways of the area are Routes 9, 16, 67, 64, 65, and 12 and steps are being taken to take over the work of maintenance on these Routes from Army and District as of June 1. Route 10 is at present under the Milan area, supervised by Lombardia Region and the building of bridges on this route is being done under the 167 CME.

Works under way in the Provinces of Forli' and Ravenna have been hampered during the month by a shortage of materials and transport. It is emphasized that the acute shortage of transport facilities is the major problem of the moment. Relief has been promised by 5th Army which hopes to release some German equipment to the Region in the near future. Provided this plan is carried out and trucks in sufficient number with P.C.L. supplies are issued, other problems can be handled without serious trouble.

Shortage of all controlled materials has been acute, partly due to the inability to obtain transport to move them from release points. With remedial measures in prospect with respect to transport, and the proposed detailing of an Engineering Supplies Officer to this office within the near future, considerable improvement can be expected.

U.S.V.S. and Genio Civile Officials are reacting very satisfactorily and are cooperating to their fullest extent. Some educational work remains to be done but all difficulties will be ironed out during the month of June.

Housing Decrees have been implemented in all provinces of the Region and all Genio Civile have been instructed to begin the organisation of housing committees where needed.

The work of rehabilitation in Rimini is progressing as rapidly as possible. Troubles are the same shortages that handicap other work i.e. transport and materials.

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PIEMONTE & LIGURIA - (Regional Engineer - Col. C.R. BIRCHETT, C.E.)

Public Works and Utilities.

The Regional Engineer has been to Alessandria, Genoa, Savona, Cuneo, Aosta, Vercelli, Novara and Domodossola. The various sections in the Region have all visited the Ligurian area and also the provincial capitals of Piemonte. Lack of transport has seriously hampered the operation of the officers in this Division.

Military Highways priorities have been obtained and are as follows:

The Autostrada Turin to Milan -

The Asti Alessandria Genoa road -

The Alessandria Piacenza Road and the Piacenza Genoa road -

The Liguria coast Highway.

Main routes are open to Genoa, Milan, Modena and all provincial capitals.

Materials are available. One large Todt Organisation Dump has been taken over by the Regional Engineer and will afford many needed items for bridge reconstruction work.

The public works section has been very active. The two areas most damaged in Piemonte are Turin and Alessandria. At present thirteen projects have been reviewed and approved. More are being studied. In Genoa 5 projects have been approved. In Liguria the damage is centered in Genoa and the southern end of the region. Provincial Capitals have been visited and the Genio Civile requested to aid in establishing the Housing Committees.

There are 32 Gas Plants in Piemonte and 16 in Liguria. Of these 46 plants 7 are municipally owned. These plants required for a 24 hours operation coal as follows:

	24 hours operation	4 hours operation
Turin	440 Tons	250 Tons
Genoa	270 "	150 "
Sic.	190 "	102 "
Misc.	180 "	104 "
TOTAL	1,080 Tons	606 Tons

At the present time all plants are down.

The trams in the cities are all operating. Buses are restricted due to lack of fuel and tires. Efforts are being made to put into service an inter-city bus service.

In the area there are relatively few serious problems resulting from water damage for the Water Supply. However there are some 19 places of major damage in as many water systems and plans are in hand for these.

The transport situation both for Regional and Contractor's use has not

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The transport situation both for Regional and Contractor's use has not been satisfactory. Transport for Genio Civile and Italian Engineers, is almost non existant. Steps have been taken to release new small pick-up trucks to the Genio Civile for their use.

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LOMBARDIA - (Regional Engineer - Col. C.P. BOLTON, R.A.)

Public Works and Utilities.

A rapid survey of the area has shown:

a) That damages to utilities are slight.

b) Damages to works and buildings, with the exception of Milan City, are less than anticipated.

c) Italian Engineer organisations are functioning satisfactorily.

Fifth Army has designated the Turin Brescia Autostrada, the Milan Piacenza road and the Piacenza Alessandria road as Military Highways. Four bridges have been destroyed. Inspections have been made and projects prepared. Two bridges have been put in hand as emergency works. All Military Highways have been turned over to the Regional Engineer during this month.

A total of 45 bridges has been reported damaged on other Highways. The general condition of highways is good, but are in need of ordinary maintenance and bitumen for patching.

A program of approximately L. 550,000,000 for Public Works is being set up for the rest of this year. This includes, for the major part, removal of debris; hospitals, schools and housing. The complete program will be forwarded during this next month.

Water works are normal in most of the region with no immediate problems. The banks of the PO River are being strengthened along the whole boundary of Lombardia and this is being done as emergency work to avoid flood damage during the flooding season.

Transport situation is better then in Southern Italy yet transport will be a criterion of the work accomplished in this Region. A study is being made of the inland water ways. Tires are critical. Captured German vehicles are expected to be assigned for road maintenance. The Public Utilities Office has assisted the electric companies in obtaining motor fuel, urgently needed material and travel passes and permits. Transportation has not been available for the utilities officers and for that reason no inspections of power and gas facilities have been made; furthermore Maj. Huban was temporarily loaned to the Region to assist in securing civilian cars and has not been available to the division for field inspection work.

VENEZIE - (Regional Engineer - Maj. W. KNIGHT, M.C., Essex Regt.)

Public Works and Utilities.

The most urgent work found necessary was to effect immediate repairs to the embankments of the Rivers Po, Adige, Brenta, Piave and the canals which had been severely damaged by aerial bombs and demolition. Work was immediately put in hand and the projects drawn up.

The 5th Army Area comprising Vicenza, Verona, Trento and Bolzano was still under A.A.C. 5th Army with the exception of Vicenza which was turned over to the Region, and the necessary funds to effect repairs to the embankments of the River Adige in Verona Province were obtained from A.A.C. 5th Army.

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The damage in the Region was not as severe as anticipated. The provinces that suffered most were Rovigo, where a number of bridges were destroyed, Verona was about 45 % damaged and has its seven bridges over the river Adige destroyed, Treviso suffered about 50 % damage, especially in the area of the station, Padova suffered about 20 % damage, Venezia no damage

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except in Port Area. Mestre, damaged 65 %. In the above Provinces, all the Public Works Services were in general functioning with a few exceptions.

The State Roads were found to be in a good state of repair, with the exception of Route II from Padova-Mestre and Route 14 from Mestre towards Trieste. In the Compartimento of Venezia 29 bridges have been destroyed on the State roads. Numerous Provincial and Communal bridges have been destroyed, but to date, the full count has not been made.

Generally the water situation is very good, there are certain works which will have to be carried out. Inspections are being carried out and projects prepared.

Cement was required in Treviso Province to enable an aqueduct to be repaired which was necessary for irrigation of a large area of land; this was procured.

Transport is again one of the problems as the Region has insufficient vehicles to allot to officers, there being only four vehicles for eight officers.

E. J. RISTEEN,
Colonel, C.E.,
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HEADQUARTERS ALLIED COMMISSION
APO 394
Public Works and Utilities Sub-Commission

10 May 1945

MAY 21 REC'D

MONTHLY REPORT - APRIL

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S U M M A R Y

GENERAL

Assistance from Switzerland

Colonel L.A. Jenny, Director of the Sub-Commission, returned from his visit to Switzerland on 22 April and has rendered a separate report on the purpose of his Mission the main points of which are as follows :-

a. To endeavor to have electricity exported to Northern Italy, if needed after liberation.

b. To ascertain what electrical generation equipment could be obtained in Switzerland if needed after liberation of N. Italy.

c. To enquire what credit Switzerland might extend to Italy to pay for these exports until Italy can repay in exports to Switzerland.

PUBLIC WORKS DIVISION

Housing

Approximately 393 Communal Housing Committees are now organized and functioning. To date 14,323 repair projects have been initiated of which more than 6,429 have been completed. Work initiated to date amounts to 1,475 million lire.

Military Highways in Italian Government Territory.

No serious problems developed during the first month after the hand over of Military Highways responsibilities from A.C. to Military Units.

Public Works - General

Information received to date on conditions in newly liberated Areas is encouraging but inadequate. Personal inspections by Headquarters Officers are being made in Northern Italy and contacts will be made with C.E.'s of Military Districts, Penbase Engineers and Regional Engineers.

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ELECTRICAL DIVISION

Italian Advisory Committees

The Advisory Committees on Electric Power for Sardinia,

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ELECTRICAL DIVISION

Italian Advisory Committees

The Advisory Committees on Electric Power for Sardinia, Sicily, Southern and Central Italy are proving to be most useful to the Italian Government and regular monthly meetings continue to be held.

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It is proposed to form an Advisory Committee on Electric Power (Northern Italy) as early as possible. A National Advisory Committee will later be formed to coordinate the work of the Regional Advisory Committees.

Electrical Reconstruction Committee

The sixth meeting of the Electrical Reconstruction Committee was held on 17 April 1945. A report was submitted from the Electrical Division in which progress of rehabilitation and forecast for the future was given. The Chief Engineer, AFHQ, chairman of the Committee, expressed satisfaction with the progress made in the restoration of the electrical facilities in Central Italy carried out under the guidance of the Allied Commission.

Power Allocation

At the monthly meeting of the Electric Power Committee of the Allied Forces Local Resources Board held on 17 April, information was given that an additional 40,000 KW of electrical generating plant was available for use in Central Italy. It was anticipated that some of this energy would be required in the area north of Florence, however, it is now known that there is sufficient electricity available in Northern Italy to supply these areas and surplus energy will shortly be available for use in Central Italy.

Generation

The second of the large 35,000 KW generating units, at Galleto, Terni, came into operation on 10 April, together with an 11,000 KW unit at Pian della Rocca.

Transmission

565 Kms. of transmission line were rehabilitated in Italy during the month. Work has been started to restore transmission systems to recently liberated plants north of the Florence Area.

Supplies

Attention is drawn to the success achieved in utilizing local materials in the reconstruction work. To date only 200 tons of imported materials have been required. This consisted of 31 tons of condenser tubes, 100 tons of transformer bushings, 50 tons of insulating materials and 19 tons of miscellaneous items.

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The sixth meeting of the Electrical Reconstruction Committee was held on 17 April 1945. A report was submitted from the Electrical Division in which progress of rehabilitation and forecast for the future was given. The Chief Engineer, AFHQ, chairman of the Committee, expressed satisfaction with the progress made in the restoration of the electrical facilities in Central Italy carried out under the guidance of the Allied Commission.

Power Allocation

At the monthly meeting of the Electric Power Committee of the Allied Forces Local Resources Board held on 17 April, information was given that an additional 40,000 KW of electrical generating plant was available for use in Central Italy. It was anticipated that some of this energy would be required in the area north of Florence, however, it is now known that there is sufficient electricity available in Northern Italy to supply these areas and surplus energy will shortly be available for use in Central Italy.

Generation

The second of the large 35,000 KW generating units, at Galleto, Terni, came into operation on 10 April, together with an 11,000 KW unit at Pian della Rocca.

Transmission

565 Kms. of transmission line were rehabilitated in Italy during the month. Work has been started to restore transmission systems to recently liberated plants north of the Florence Area.

Supplies

Attention is drawn to the success achieved in utilizing local materials in the reconstruction work. To date only 200 tons of imported materials have been required. This consisted of 31 tons of condenser tubes, 100 tons of transformer bushings, 50 tons of insulating materials and 19 tons of miscellaneous items.

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GENERAL

1. Assistance from Switzerland

Col. L.A. Jenny, Director of the S/C, left for Switzerland on 28 March 1945 and returned 22 April, a separate report has been rendered. The main purpose of the mission was:-

a. To endeavor to have electricity exported to Northern Italy, if needed after liberation.

b. To see what electrical generation equipment could be obtained in Switzerland, if needed after liberation of N. Italy.

c. To see what credit Switzerland might extend to Italy to pay for these exports until Italy can repay in exports to Switzerland.

While in Switzerland many other subjects were reviewed and reported upon.

As a result of this visit it can be stated that :-

a. 59000 KW of electricity can be exported to Northern Italy.

b. Much electrical generating plant is now available in Switzerland, or could be finished in a few months. There is a shortage of magnetic plates for dynamos, etc. and aluminum.

c. Switzerland will extend a credit to Italy sufficient to meet early rehabilitation needs.

Other subjects reviewed and reported upon were :-

(i) Fertilizer production and food situation in N. Italy,

(ii) Textile Machinery,

(iii) Transit through Switzerland of food and supplies,

(iv) Miscellaneous data collected on :-

a. Trucks
b. Medical Aid & food
c. Flour Mills
d. Telephones
e. Diesel & Gas Motors
f. Pumps
g. Medical apparatus
h. Agricultural Machinery
i. Heating Installations

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b. Medical Aid & food
c. Flour Mills
d. Telephones
e. Diesel & Gas Motors
f. Pumps
g. Medical apparatus
h. Agricultural Machinery
i. Heating Installations
j. Lathes
k. Chemicals
l. Electric Drills
m. Tooling Machines
n. Locomotives

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(v) Imports from Italy desired by Swiss :-

An official list was also obtained from Switzerland showing what imports it desired from Italy, and in what quantities, and which could be used to repay Switzerland for exports to Italy.

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	Summary of Projects - Tables "A" "B" & "C"	6

1. Inspections

No inspections were made by Headquarters Officers, due to the hospitalization of the one available Field Engineer as a result of transport accident. The pressure of work in Headquarters required the continuous presence of the Division Chief and the one staff officer.

2. Housing

Approximately 393 Communal Housing Committees are now organized and functioning. To date 14,323 repair projects have been initiated of which more than 6,429 have been completed. Work initiated to date amounts to 1,475 million lire. Progress of housing repairs through the month of April is reflected on attached table (see page 6b Table "B").

3. Transport and Construction Equipment

During the month, approximately 300 salvaged tires were secured for use by Genio Civile and Contractors. These tires, while not in the best condition, have made it possible to place many passenger cars and trucks back on the road. Delivery has

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3. Transport and Construction Equipment

During the month, approximately 300 salvaged tires were secured for use by Genio Civile and Contractors. These tires, while not in the best condition, have made it possible to place many passenger cars and trucks back on the road. Delivery has not yet been completed on the 30 - 3 ton trucks mentioned in the March report, as 17 vehicles were not available at the source against which the release was issued. The matter is now being cleared with A.F.H.Q.

Additional items of road machinery have been received and are being assembled and serviced. In an effort to place more vehicles in service the new tires are being removed from the asphalt kettles and placed on Genio Civile cars. These tires will be replaced with old tires, which will be entirely adequate for the kettles.

4. Military Highways in Italian Government Territory

No serious problems developed during the first month after the hand-over of Military Highways responsibilities from A.C. to Military Units.

Proposals for a limited number of new works were developed by the Military Units and Genio Civile and passed to this Headquarters for approval. The schemes gave every evidence of having been well scrutinized as to urgency and cost.

Some objection was raised by Military District and D.W., A.P.H.Q. over the necessity of Military Units handling P.O.L. coupons for Contractors on military works. This situation was adjusted satisfactorily by the Division Chief in conference with District Roads Officers after it was clearly shown that the use of these special coupons served only to ensure provision of adequate P.O.L. (Petrol, etc.) and would be discontinued when the military urgency no longer existed.

5. Public Works - General

Information received to date on conditions in newly liberated Areas is encouraging but inadequate. Personal inspections by Headquarters Officers are being made in North Italy and contacts will be made with C.E.'s of Military Districts, Penbase Engineers and Regional Engineers.

6. The following tables show under main classifications the present aggregate volume of Public Works throughout Italian Government Territory and A.M.G. Territory :-

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PUBLIC WORKS PROJECTS IN AIRH (A.M.G.) TABLE "A"

TYPE	Initiated during Month	COST (Lire)	Completed during Month	COST (Lire)	In progress during Month	
TABLE A	Schemes of Military Priority					
Roads	36	118,294,000	22	33,141,000	38	11
Bridges & Retaining Walls	29	78,617,000	30	21,099,000	85	19
TOTAL	65	196,911,000	52	54,240,000	123	30
TABLE B	Schemes other than of Military Priority (but for which approval of AC/AIC was required)					
Roads	96	76,708,926	36	17,577,940	118	9
Bridges & Retaining Walls	143	162,069,462	42	27,874,700	259	24
Public Buildings, Schools, etc.	74	32,487,096	28	5,190,893	203	12
Debris removal & Misc.	38	30,206,123	12	11,329,042	198	8
Water Works, Sewers, & Flood Control	115	74,488,264	23	16,083,536	226	11
Housing	27	50,934,627	15	11,525,000	100	10
TOTAL	493	426,894,498	159	89,581,111	1,104	76
TABLE C	Schemes handled independently by Italian agency.					
Roads	14	2,411,700	102	11,246,993	53	
Bridges & Retaining Walls	23	3,154,135	153	18,723,000	104	1
Public Buildings, Schools, etc.	71	7,688,764	186	13,779,893	151	1
Debris Removal & Misc.	5	574,000	25	2,733,112	21	
Water Works, Sewers & Flood Control	89	16,833,935	75	9,526,185	159	3
Housing	1	150,000	1	62,760	2	
TOTAL	203	30,812,534	542	56,071,743	490	66
GRAND TOTAL	761	654,618,032	753	199,892,854	1,717	1,13

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PUBLIC WORKS PROJECTS IN APRIL (A.I.G.)

TABLE "A"

Initiated during Month	C O S T (Lire)	Completed during Month	C O S T (Lire)	In progress during Month	C O S T (Lire)
Schemes of Military Priority					
36	118,294,000	22	33,141,000	38	112,028,000
29	78,617,000	30	21,092,000	85	193,633,690
65	196,911,000	52	54,240,000	123	305,661,690
Schemes other than of Military Priority (but for which approval of AC/AAG was required)					
96	76,708,926	36	17,577,940	118	90,955,810
143	162,069,462	42	27,874,700	259	246,278,704
74	32,487,096	28	5,190,893	203	121,177,526
38	30,206,123	13	11,329,042	198	83,387,696
115	74,188,264	23	16,083,536	226	116,179,693
27	50,934,627	15	11,525,000	100	107,893,100
493	426,694,498	159	89,381,111	1,104	765,872,529
Schemes handled independently by Italian agency.					
14	2,411,700	102	11,246,993	53	6,625,301
23	3,154,135	153	18,725,000	104	14,148,393
71	7,688,764	186	13,779,893	151	13,231,728
5	574,000	25	2,733,112	21	2,473,112
89	16,833,955	75	9,526,185	159	30,121,246
1	150,000	1	62,760	2	395,000
203	30,812,534	542	56,071,743	490	66,994,780
701	654,618,032	753	199,892,854	1,717	1,158,528,999

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SUMMARY ZONE OF PROGRESS OF HOUSING REPAIRS TABLE "1"

Provinces of: Agrigento - Avellino - Bari - Benevento - Brindisi - Cagliari - Caltanissetta - Campobasso - Catania - Catanzaro - Chieti - Cosenza - Enna - Foggia - Frosinone - L'Aquila - Lecce - Littoria - Matera - Messina - Napoli - Nuoro - Palermo - Pescara - Potenza - Ragusa - Reggio Calabria - Rieti - Roma - Salerno - Sassari - Siracusa - Taranto - Teramo - Trapani - Viterbo - (1).

THIS REPORT COVERS THE MONTH OF MARCH 1945 .-

	1 Started before March	2 Started during March	3 Total Col. 1 & 2	4 Approx. cost (In thousand Lire)	5 Completed by 31 Mar. 1945.	6 Balance underway 3 less 5
Projects done by the owners:						
up to 50,000 Lire	4,463	469	4,932	153,638	2,733	2,199
from 50,000 to 150,000 Lire	1,902	504	2,406	264,877	836	1,570
from 150,000 to 300,000 Lire	736	132	868	185,824	217	651
from 300,000 to 1,000,000 Lire	324	59	383	217,201	55	328
over 1,000,000 L.	41	13	54	98,733	7	47
TOTAL	7,446	1,197	8,643	920,273	3,848	4,795
Projects done by Genio Civile:						
up to 50,000 Lire	3,537	125	3,662	72,303	2,059	1,603
from 50,000 to 150,000 Lire	1,097	154	1,251	106,232	352	899
from 150,000 to 300,000 Lire	400	52	452	89,395	125	327
from 300,000 to 1,000,000 Lire	256	18	274	168,436	43	231
over 1,000,000 L.	31	10	41	116,305	2	39
TOTAL	5,321	359	5,680	554,671	2,581	3,099
GRAND TOTAL	12,767	1,556	14,323	1,474,944	6,429	7,894

COMUNE COMMITTEES 1420

	Preceeding total	Total this month.	New total
Working Committees	186	123	311
Advisory Committees	21	62	83
Communes as yet requiring Committee	-	108	108

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COMMUNE COMMITTEES

4429

	Preceeding total	Total this month.	New total
Working Committees	188	123	311
Advisory Committees	21	62	83
Communes as yet requiring Committee	-	108	108

(1) Matera and Lecce nil report - Teramo report missing, table by Genio Civile not complete - The data from Naples and Caserta offices not yet summed up - The figures as a whole may still be altered upon receipt of further data from Agrigento, Enna, Foggia, L'Aquila, Littoria, Messina, Napoli, Palermo, Pescara, Rieti, Salerno, and Teramo.

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PUBLIC WORKS PROJECTS BY U.S.A. GOVERNMENT TERRITORIES FOR THE MONTH OF MAY 1945.

TYPE OF PROJECTS	Works initiated during month	C O S T (Lire)	Works completed during month	C O S T (Lire)	Works in progress during month	C (
TABLE A			SCHEMES OF MILITARY PRIORITY			
Roads	21	53,429,500	19	21,328,000	158	460
Bridges	4	6,359,000	20	40,251,000	75	167
TOTAL (A)	25	59,788,500	39	61,79,000	233	628
TABLE B			CIVIL WORKS			
Roads	51	34,549,151	24	14,998,747	265	298
Bridges	38	41,488,556	25	28,467,847	158	216
Public Buildings	80	57,496,310	32	7,203,772	204	166
Schools	26	24,455,774	11	4,715,200	112	104
Churches & Charitable Inst.	28	13,734,528	24	5,420,670	143	48
Debris Removal, Etc.	66	21,920,078	75	27,267,492	136	201
Aqueducts, Sewers	11	3,201,700	9	4,109,219	80	79
Hydraulic Works	10	2,327,123	3	1,880,000	42	2,6
Maritime Works	18	19,432,432	7	1,853,091	88	51
Housing Repairs	168	87,006,365	98	46,318,786	756	340
Benifica	16	13,740,950	5	5,454,000	72	391
TOTAL (B)	512	319,362,967	313	147,766,924	2,036	2,354
GRAND TOTAL (A + B)	537	379,141,467	352	209,345,924	2,269	2,983

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PUBLIC WORKS PROJECTS IN THE LAST GOVERNMENT TRACTION FOR THE MONTH OF APRIL 1945. TABLE "C"

PROJECTS	Works initisted during Month	C O S T (Lire)	Works completed during Month	C O S T (Lire)	Works in progress during month	C O S T (Lire)
SCHEMES OF MILITARY PRIORITY						
	21	53,429,500	19	21,328,000	158	460,900,058
	4	6,359,000	20	40,251,000	75	167,834,004
	25	59,788,500	39	61,579,000	233	628,734,062
CIVIL WORKS						
	51	34,549,151	24	14,998,747	265	298,791,708
	38	43,488,556	25	28,467,847	158	216,407,414
	80	57,496,310	32	7,203,772	204	165,112,342
	26	24,455,774	11	4,713,200	112	104,756,628
tuble Inst.	28	13,724,528	24	5,420,670	143	48,124,445
Etc.	66	21,920,078	75	27,267,492	196	201,728,638
s	11	3,201,700	9	4,189,319	80	79,497,311
	10	2,327,123	3	1,880,000	42	256,019,906
	18	19,432,432	7	1,853,091	88	51,208,900
	168	87,006,365	98	46,318,786	756	340,823,025
	16	13,740,950	5	5,454,000	72	591,067,123
	512	319,352,967	313	147,766,924	2,056	2,354,367,440
a + b)	537	379,141,467	352	209,345,924	2,289	2,983,081,502

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ELECTRICAL DIVISION

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8	Utility Rates	9
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1. Master Control - Central Italy Grid

The Master Control for the Central Italy Grid which was established in the offices of the Electrical Division in January 1945 was moved to the "Società Romana di Elettricità" Via Poli 14, Rome on 14 April 1945. The transfer was carried out successfully and the Control Center in the Electrical Division will be retained for emergency use for the time being.

2. Italian Advisory Committees

The Advisory Committees on Electric Power for Sardinia, Sicily, Southern and Central Italy are proving to be most useful to the Italian Government and regular monthly meetings continue to be held. The Sardinian and Sicily Committees now function under their own chairmen. At the request of the Ministry of Public Works the Chief of the Electrical Division still retains chairmanship of the Southern and Central Italy Committees for the present.

It is proposed to form an Advisory Committee on Electric Power (Northern Italy) as early as possible. A National Advisory Committee will later be formed to coordinate the work of the Regional Advisory Committees.

Attention is drawn to the action taken by the Central Italy Advisory Committee in which the electrical companies showed the true spirit of co-operation in waiving a claim for loss in revenue brought about by interconnection of the grid systems.

2	Italian Advisory Committees	7
3	Electrical Reconstruction Committee . . .	8
4	Northern Office - Florence	8
5	Power Allocation	8
6	Generation	8
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Attention is drawn to the action taken by the Central Italy Advisory Committee in which the electrical companies showed the true spirit of co-operation in waiving a claim for loss in revenue brought about by interconnection of the grid systems.

All the Advisory Committees again stressed the urgent need for improved transport facilities and tyres for existing vehicles.

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3. Electrical Reconstruction Committee

The sixth meeting of the Electrical Reconstruction Committee was held on 17 April 1945. A report was submitted from the Electrical Division in which progress of rehabilitation and forecast for the future was given. The Chief Engineer AFHQ, chairman of the Committee, expressed satisfaction with the progress made in the restoration of the electrical facilities in Central Italy carried out under the guidance of the Allied Commission.

4. Northern Office-Florence

The establishment of the Advance Section of the Electrical Division at Florence, in January 1945, has proved invaluable in maintaining a close liaison with Military Authorities in the forward areas and affecting reduction in car mileage.

Towards the end of the month electrical officers from the Central Italy Reconstruction Team were sent forward to Florence, in order to take over the more urgent work which it was anticipated would fall to A.C. when the Armies moved forward.

Repair workshops in the Florence area are now carrying out all the repair work for the generating plants in the northern part of Central Italy.

5. Power Allocation

At the monthly meeting of the Electric Power Committee of the Allied Forces Local Resources Board held on 17 April, information was given that an additional 40,000 KW of electrical generating plant was available for use in Central Italy. It was anticipated that some of this energy would be required in the area north of Florence, however, it is now known that there is sufficient electricity available in northern Italy to supply these areas and surplus energy will shortly be available for use in Central Italy.

6. Generation

Progress continued on rehabilitation of generating stations in Central and Southern Italy. Difficulties experienced are still attributed to transport, scarcity of work-shop facilities, shortage of cement and lack of insulating material.

The plants destroyed north of Florence in recently liberated territory have been inspected and wreckage is being cleared preparatory to restoration work being commenced.

The second of the large 35,000 KW generating units at Galleto, Terni, came into operation on 10 April, together with an 11,000 KW unit at Pian Delle Rocca.

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7. Transmission

565.5 Kms. of transmission line were rehabilitated in Italy during the month. Work has been started to restore transmission systems to recently liberated plants north of the Florence Area.

8. Utility Rates

No special matters arose in respect to utility rates during the month.

9. Supplies

Success has been achieved in utilizing local materials in the reconstruction work. To date only 200 Tons of imported materials have been required. This consisted of 31 tons of condenser tubes, 100 tons of transformer bushings, 50 tons of insulating materials and 19 tons of miscellaneous items.

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8. Utility Rates

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9. Supplies

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Electrical Division

USEFUL INFORMATION AT A GLANCE

Position at 30 April 1945

No.			South Italy	Central Italy	North Italy
1	Nameplate capacity of generating plant restored to service during April 1945	KW	0.6	41.25	-
2	Output capacity expected from above plant during May 1945	KW	0.6	39.00	-
3	Maximum load carried to date	KW	173.5 @	117.9	-
4	Present average weekly units being generated KWHx10⁶		19.5 @	10.81	-
5	System load factor	%	75 % @	79 %	-
6	Percentage of units generated by hydro plants	%	95 % @	90 %	-
7	Length of transmission line restored in service during April 1945 (30 KV and above)	Km.	213	352.5	-
8	Approximate number of civilian labour directly engaged on Electrical Rehabilitation Work	No.	940 @	3,945	-

@ Southern Italy generation for April estimated. March figures used.

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No.			South Italy	Central Italy	North Italy
1	Nameplate capacity of generating plant restored to service during April 1945	kW	0.6	41.26	-
2	Output capacity expected from above plant during May 1945	kW	0.6	39.00	-
3	Maximum load carried to date	kW	173.5 e	117.0	-
4	Present average weekly units being generated kwhx10^6		19.5 e	18.81	-
5	System load factor	%	75 % e	79 %	-
6	Percentage of units generated by hydro plants	%	95 % e	90 %	-
7	Length of transmission line restored in service during April 1945 (30 KV and above)	Km.	213	352.5	-
8	Approximate number of civilian labour directly engaged on Electrical Rehabilitation Work	No.	940 e	3,965	-

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e Southern Italy generation for April estimated. March figures used.

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Electrical Division

Summary of Report on Progress of Rehabilitation of Electrical Generating Stations and Transmission Systems in Peninsular Italy, as at 30 April 1945

GENERATING STATIONS

No.		South Italy MW	Central Italy MW	North Italy MW
1	Nameplate capacity of Generating Stations 31st December 1941	473.1	379.7	4,683.3
2	Nameplate capacity available at time of occupation	172.4	105.5	-
3	Actual output available at time of occupation	111.8	51.8	-
4	Nameplate capacity available at 30 April 1945	277.0	264.30	-
5	Actual output available at 30 April 1945 (Note: Southern Italy generation estimated March figures used)	174.7	198.2	-

TRANSMISSION SYSTEM

No.	(30 KV and above)	Km.	Km.	Km.
1	Length of transmission line in operation 31 December 1941	4,493	9,409	25,000
2	Length of transmission line available at time of occupation	1,393	829	-

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No.		South Italy KW	Central Italy KW	North Italy KW
1	Nameplate capacity of Generating Stations 31st December 1941	473.1	879.7	4,683.3
2	Nameplate capacity available at time of occupation	172.4	105.5	-
3	Actual output available at time of occupation	111.8	51.8	-
4	Nameplate capacity available at 30 April 1945	277.0	264.50	-
5	Actual output available at 30 April 1945 (Note: Southern Italy generation estimated March figures used)	174.7	198.2	-

TRANSMISSION SYSTEM

No.	(30 KV and above)	Km.	Km.	Km.
1	Length of transmission line in operation 31 December 1941	4,493	9,409	25,000
2	Length of transmission line available at time of occupation	1,393	829	-
3	Length of transmission line in operation at 30 April 1945	3,409	4,284.6	-

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Electrical Division

Estimate of additional generating plant expected to come into operation for the six months ending 31st October 1945.

(Nameplate capacity)

Name of Station and Number of Unit	Location	YEAR 1945					
		May 31st	June 30th	July 31st	Aug. 31th	Sept. 30th	Oct. 31st
		MW	MW	MW	MW	MW	MW
Acquoria No.2	S.R.E.	4.0					
Cepraco No.2	"		3.5				
Fontecupo	"			3.0			
Pontetiume	"			3.4			
Castelmadama	A.C.E.A.		5.0				
Mandela	"				3.0		
Saliseno	"					8.0	
Corese				8.0			
Vemmartello			3.0				
Galleto No.4	TERNI		34.4				
Galleto No.2	"				34.4		
Aventino	S.M.E.	4.2					
Lete				5.2			
Castelnuovo Garfagnana	VALDARNO			2.4			
Sestaione	"			1.42			
Sperando	"			4.1			
Lima No. 2	"	1.5					
Pian della Rocca No. 2	"	11.0					

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Name of Station and Number of Unit	Location	YEAR 1945					
		May 31st	June 30th	July 31st	Aug. 31th	Sept. 30th	Oct. 31st
		kW	kW	kW	kW	kW	kW
Acquaria No.2	S.A.E.	4.0					
Cepraio No.2	"		5.5				
Fontecupa	"			3.0			
Fontefiume	"			3.4			
Castelmaggiore	A.C.E.A.		5.0				
Mandola	"				3.0		
Saliseno	"					8.0	
Gorosa				8.0			
Vernaccia			3.0				
Gallicto No.4	TERNI		34.4				
Gallicto No.2	"				34.4		
Aventino	S.A.E.	4.2					
Leto				5.2			
Castelnuovo Garfagnana	VALDARNO			2.4			
Sustaioni	"			1.42			
Spurando	"			4.4			
Lima No. 2	"	1.5					
Fiera della Rocca No. 2	"	11.0					
							1410
Monthly Increase		20.7	47.9	28.62	37.4	8.0	-

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REGIONAL REPORTS

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Reports submitted by the Regional Engineers are briefly summarized in the following pages :-

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The number, cost, and status of all projects in the several regions are included in the Summary tables on page 6a

NAPLES COMMUNE - (Mr. H.H. Townsend)

Public Works

Street maintenance almost normal in the city area, on the outskirts maintenance mediocre. Reconstruction of 7 buildings has been completed and 52 works are in an advanced stage. Removal of debris continues. In congested areas of Naples (port area etc.) sidewalks are almost clear for pedestrians. The sewerage system of Naples is being carefully surveyed by our technical staff. New projects have been drawn up to clear the water front of the city of Naples, of sewage matter and garbage.

The large reservoir of Capodimonte is being repaired. In the pump-house at Vomero the work is almost completed. The pump-house of Chiaiano will go into operation shortly.

While passenger transportation is becoming normal available transport for materials is getting worse. We are trying to furnish public utilities under our jurisdication with salvaged army tires.

4409

Electricity and Gas

The electrical situation is improved and the city of

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4409

Electricity and Gas

The electrical situation is improved and the city of Naples has been illuminated. Trolley-cars almost working to their full efficiency. Suburb tramways have commenced to operate. Industrial plants are begining to be supplied with electricity. Passenger-elevators in buildings are being

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connected, with priority to public buildings, doctors etc. As far as electrical supply conditions are concerned the outlook is good.

The medium daily production of Gas has been raised to a maximum of 124000 mq. Reconstruction work continues on Gas distribution and was extended on April 10 to Capodimonte area. On April 30 another large zone of Naples will be furnished with gas. The inspection to the pipe lines is in progress in order to supply the suburban zones (Vesuvian Communes) and Cristallini (Naples).

UMBRIA-MARCHE - (Regional Engineer : Lt.Col. C.A. LATIMER,C.E.)

Public Works and Utilities

There has been no change in road priorities in the area during the period of this report.

The maintenance of roads in Umbria is practically confined to military roads as there is a great network of them and a shortage of materials & transport.

The Avezzano-Sora Rd (Nº 82) is reported in the final stages and will be completed in May. All essential work is completed now and the rest is purely a question of parapets and cleaning up.

Several projects for public buildings in the Marche have been cancelled due to the fact that they had been held without further action by the Genio Civile and did not receive consideration.

A materials division has been set up in the Engineer Section which has been doing considerable work in getting brick-kilns back into operation in order to have materials for the construction programme. This section has assisted where possible by furnishing on loan or outright to the Supply Section certain quantities of cement and other materials for the purpose of assisting industrial plants and other work of Industrial Rehabilitation.

Transport remains a problem throughout the area. Some tires have been received for the Genio Civile and contractors working in this area. Ancona and Pesaro need much more in the way of transportation to make the reconstruction program successful.

TOSCANA - (Regional Engineer - Lt.Col. F.S.L. Lee, R.E.) 1408

Public Works and Utilities

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Public Works and Utilities

Due to change of station by many Army Engineering Units, additional responsibilities were required from both the Genio Civile and maintenance contractors. The above mentioned Army movements required Special Genio Civile in particular to

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expand its operations on the State Road system. Demands and requests from Army sources became exceedingly heavy, not only was this true from the expansion and extension of Army Routes, but demands and requests were made that contractors on the older and better organized sections of Highways increase their forces, and supply more equipment. Pressure has been exerted in this direction, until, at the present time, all contractors on State Routes either own or have access to rollers.

Of the 14 larger bridge projects in this Region's Section of 1 District all but one now have contractors working on the project.

Throughout the eastern part of the Region we have been handicapped for cement, and transport.

As the armies move forward more work is being undertaken in the northern areas of the Region, particularly in Pistoia, Lucca and Pisa. Sewage and water supply are the chief items to date.

So far as flood control is concerned the worst danger is past and the more important drainage canals largely attended to, there is still an enormous amount of work to be done. Much is due to the fact that no maintainance had been carried out for over a year in most Bonifica areas which only aggravated war damage. It is of the utmost importance from agricultural and health points of view that everything possible should be done to rehabilitate these areas.

Electricity and Gas

The rationing system is working well in the majority of the towns and military representatives are co-operating with A.M.G. officers to ensure that the best possible use is made of the available power. Steps are being taken to allocate power during certain hours to work water pumps for agricultural irrigation.

It has been found that the economical distribution of allocated power has, in some cases, loaded transformers to a high level and the following action has been taken.

At Tavarnuzze the 120 KV - 20,000 KVA transformer is expected to be in operation on about the 20th of May.

The 6,000 static condenser battery is expected to be operating on the 5th of May.

The Empoli area has been permanently switched over to P.B.S. system.

On the 2nd of April the Maremmana Co. net was switched 1607 to the Larderello - Castelnuovo output.

Valdarno Electric Company has guaranteed that all customers who have not been authorized by the D.R.B. have been

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On the 2nd of April the Maremmana Co. net was switched 4407 to the Larderello - Castelnuovo output.

Valdarno Electric Company has guaranteed that all customers who have not been authorized by the E.R.B. have been disconnected. Approx. 52 customers have been inspected, of which 13 have been found violating electricity regulations.

The situation of the gas supply in Florence is as follows :-

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a. Natural

Metano gas for Florence can now be supplied at the rate of 12,500 cubic meters per day of which about 7,150 c.m. per day is the average consumption. Approx. 277 vehicles are equipped to burn metano gas at a rate of about 1,320 cubic meters per day. The Metano Company is assembling another compressor at Pietrasale and is also drilling other wells in the mine fields at Pietrasela.

b. Artificial

An average of 60,?00 c.m. of gas per day has been produced for about 35,000 customers; the average consumption per consumer per month is 51,6 c.m. The coal situation continues to be critical. It was not possible till now to increase the production of lignite gas owing to the bad quality of the lignite the gas works has on hand.

EMILIA - (Regional Engineer - Lt.Col. W.M. SPANN)

Public Works and Utilities

8th Army relinquished its control of Highway 16 from Cattolina (south boundary) to Ferrara (River Po) and route 9 from Rimini to Bologna. 67 CRE is in charge of the area under District 1 and has requested that we take over maintenance of these roads as rapidly as possible, putting them under Centonieri system of control. No instructions have yet been issued covering highways for the part of the Region in 5th Army territory.

a. Water supply investigation was made at Lugo and report submitted to the S.C.A.C. covering the situation. Projects for repairs to water systems were initiated at Ravenna, Brisighella, Savignano, Predappio, S. Arcangelo, Fredozio and Rimini. The water supply situation in the newly occupied areas is fairly good, except where there is an electric pump station where the power supply in cut off. Wells and artesian water supply seem adequate to fill emergency until repairs can be made or supplemental equipment installed.

b. Sewer repairs were started at Rimini, Forli and Ravenna. The situation at Rimini is especially bad and repair work is being expedited.

Company is assembling another compressor at Pietramala and is also drilling other wells in the mine fields at Pietramala.

b. Artificial

An average of 60,700 c.m. of gas per day has been produced for about 35,000 customers; the average consumption per consumer per month is 51,6 c.m.
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c. Drainage and Flood control

1. General. All of the area flooded by the Germans near and South of Ravenna (45.000 acres) is now dry. Some work remains to be done, however, for agricultural production and malaria control.
The most urgent work remaining is the removal of one pump from Taglieta and transporting to Pignone Foundry Florence for repair or for measurement and construction of a new pump.

Some trucks have been located and we are trying to find ways and means of securing gasoline and oil for the contractors to use on operations.

The personal transportation set up is desperate from our point of view, as outlined in the report to the S.C.A.O. 8th Army. With only 2 cars available, both of which have been in the repair shop frequently with consequent delays, make it a slow job getting field work done by 5 officers, each of which must operate independently if he is to be responsible for the accomplishment of his assignment.

Electricity

Preliminary indications point to a larger supply of electricity from northern areas than was anticipated. Military operations are just concluded at this writing, but tram cars are operating in Piacenza and lights and power are available in Parma, Reggio, Modena and Bologna.

Investigations are under way for a complete report at an early date.

Superficial investigation indicated that the large steam plant at Piacenza was badly damaged. It is located at the Po river crossing for railways and the highway in the vicinity of the rail yards, so that bomb damage from air raids was considerable.

PIEMONTE-LIGURIA - (Regional Engineer : Col.C.R. BIRCHETT C.B.)

LOMBARDIA - " " Col.C.P. BOLLICK F.A.)

VENEZIA - " " Maj. W. KNIGHT M.C.)

1403

Planning, organisation of staff etc. preparatory to entering Regions.

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1405

Planning, organisation of staff etc. preparatory to entering Regions.

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

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

5203

10 April 1945

APR 18 PM'D

MONTHLY REPORT - MARCH

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INFORMATION

3. Transport and Construction Equipment

Many items of imported road machinery were received during the month including asphalt kettles, rock crushers, air compressors, concrete mixers one asphalt mixing plant, and 30 second hand 3 ton trucks. Unfortunately a most important item - 170 dump trucks - previously requisitioned was cancelled by AFHQ. The overall transport problem remains critical.

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ELECTRICAL DIVISION

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1. Master Control Central Italy Grid

Successful operation of the Master Control Center continued during March.

Daily frequency and voltage readings continue to improve as added experience is gained by the employees of the control center and of the separate generating stations.

2. Italian Advisory Committees

Regular meetings of the Advisory Committees on Electric Power were held in Sardinia, Sicily, Southern Italy and Central Italy. The Southern Italy Advisory Committee recommended certain movement of plant and transformers and this was endorsed by the Electrical Reconstruction Committee, a Military body. This is an interesting point and demonstrates the cooperation as between the civilian and Military organizations.

The Central Italy Advisory Committee recommended that high voltage transmission and transformation be standardized. This recommendation was made to the Ministry of Public Works. Such standardization will result in the reduction of necessary imports.

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All the Advisory Committees stressed the urgent need for improved transport facilities and tires for existing vehicles.

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It has been decided in conjunction with the Ministry of Public Works to postpone the formation of National Advisory Committee until the liberation of Northern Italy.

3. Electrical Reconstruction Committee

The fifth meeting of the Electrical Reconstruction Committee was held on 20 March. The progress of rehabilitation is practically limited by the repair factory capacity available in Italy. The Committee decided that Allied Commission will initiate any further requisitions for portable electric units which may be considered necessary for civilian use in Northern Italy.

4. Northern Office, Florence

Activities of the Advanced Section, Electrical Division included liaison with military authorities following production of repair parts in local shops and foundries and assisting the Valdarno electric company in rehabilitation problems. Repairs at the Leghorn steam plant are under way through the cooperation of the British Royal Navy. Repairs at the Piombino steam plant are proceeding according to schedule. Work at the Larderello plant has been placed under the jurisdiction of Toscan Region. Plans have been made for the rehabilitation of two additional units at Larderello.

5. Construction Teams, Forward Areas.

Electric reconstruction teams to assist in the rehabilitation of electric facilities in Northern Italy have been organized, and will work under the direction of this Headquarters. These teams will function as soon after liberation as possible, and central direction will provide an integral program of reconstruction on a national basis.

The officers assigned to the teams are now supervising projects in Central Italy.

6. Estimated Electrical Requirements - Northern Italy.

Conferences were held at which the electric situation in enemy occupied territory was discussed. Representatives of the Food, Agriculture, Industry, and Transportation Sub-Commissions prepared estimates of the power requirements and location of high priority electric consumers in the northern regions.

7. Power Allocation.

At the monthly meeting of the Electric Power Committee of the Allied Forces Local Resources Board, members were informed that additional power would be available about 10th April and allocations were made on this basis. In Southern and Central Italy the Military demands have now been satisfied and any further supplies which may be restored will be available for civilian purposes. This does not take into account any power which may have to be taken away to supply Northern Italy.

A memorandum has been circulated to all Sub-Commissions and military services informing them as to the procedure to be adopted in connection with applications for supply of electricity

4. Northern Office, Florence

Activities of the Advanced Section, Electrical Division, included liaison with military authorities following production of repair parts in local shops and foundries and assisting the Valdarno electric company in rehabilitation problems. Repairs at the Leghorn steam plant are under way through the cooperation of the British Royal Navy. Repairs at the Piombino steam plant are proceeding according to schedule. Work at the Larderello plant has been placed under the jurisdiction of Toscana Region. Plans have been made for the rehabilitation of two additional units at Larderello.

5. Construction Teams, Forward Areas.

Electric reconstruction teams to assist in the rehabilitation of electric facilities in Northern Italy have been organized, and will work under the direction of this Headquarters. These teams will function as soon after liberation as possible, and central direction will provide an integral program of reconstruction on a national basis.

The officers assigned to the teams are now supervising projects in Central Italy.

6. Estimated Electrical Requirements - Northern Italy.

Conferences were held at which the electric situation in enemy occupied territory was discussed. Representatives of the Food, Agriculture, Industry, and Transportation Sub-Commissions prepared estimates of the power requirements and location of high priority electric consumers in the northern regions.

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A memorandum has been circulated to all Sub-Commissions and military services informing them as to the procedure to be adopted in connection with applications for supply of electricity for civilian purposes in Italian Government Territory.

8. Generation

Following complete rehabilitation a 12 000 KW Unit was placed in operation at the Castelnuovo-Larderello natural steam station.

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A 1.500 KW unit at the Lima station was reactivated. This plant serves the Pisa Lucca Area.

Also, several small stations of local importance were repaired in Abruzzi-Marche.

9. Transmission:

109 kilometers of transmission line were rehabilitated during the month, as contrasted with 200 for February. Two factors caused the decrease: a) most of the important lines in Central Italy, which had been badly damaged, have now been repaired and b) a scarcity of transportation in the Valdarno area.

In the Rome - Terni - Foligno area, the present state of the transmission lines is near the pre-war condition.

The biggest task of transmission rehabilitation remaining concerns the Italian State Railway transmission lines. This work is under way, based on plans made by the Transportation Incrament Military Railway Service in cooperation with this Sub-Commission.

At Prato, a 5000 KVA synchronous condenser went into operation, further improving voltage conditions in the Florence area. -

10. Utility Rates

Procedure remains as outlined in the January and February reports, with the exception that in Italian Government territory final action is taken by the Interministerial Price Committee (Italian). Copies of decisions are forwarded to the Sub-Commission for information only, and are not commented upon.

Applications of three utilities in AMG territory were analysed and passed to the Price Group Economic Section for action.

The Price Group - Economic Section approved the following surcharges:

Societa' Elettrica Maremmana	400%
Forze Idrauliche dell' Appenino Centrale	400%
Societa' Italiana per il Gas (Florence)	600%

Official notification to the above companies of the final action of the Price Group has been withheld by the Economic Section pending approval by the SCAO AMG, 5th Army.

11. Supplies: -

During March all demands for rehabilitation work were met, but not without difficulty due to the shortage of materials from local resources, and it was necessary on a number of occasions to appeal to Ordnance or Engineer channels.

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11. Supplies: -

During March all demands for rehabilitation work were met, but not without difficulty due to the shortage of materials from local resources, and it was necessary on a number of occasions to appeal to Ordnance or Engineer channels.

Items in short supply were cement, oxygen, acetylene, insulating materials and water piping.

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The following materials were included in the larger demands supplied:-

Cement	1500 Tons
Steel work	150 "
Bricks	200 "
Tiles	175 "

1500

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PUBLIC WORKS DIVISION

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3	Housing	9
4	Transport and Construction Equipment	9
5	Withdrawal from Italian Government Territory	9
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7	Summary of Projects - Tholes "A" & "B"	11 & 12

1. Inspections.

Special inspections were made by Engineer Officers of this Headquarters covering the following Routes of Military Priority:

Routes 3 and 75	- Rome to Perugia
Route 3	- Perugia to Fano
Route 16	- Fano to Riccione and Rimini
Route 9	- Rimini to Forli
Route 67	- Forli to Florence
Route 67	- Florence to Leghorn
Route 1	- Rome to Leghorn
Route 6	- Rome to Caserta
Route 7	- Rome to Caserta
Routes 7 and 90	- Caserta to Foggia
Route 76	- Fassato to Ancona

Visits were also made to Regional Engineers' Offices in Southern, Lazio-Umbria, Abruzzi-Marche, Toscana and Emilia Regions. The Chief of the Public Works Division made a six day inspection trip during which time visits were made to Perugia, Riccione, Rimini, Forli, Florence and Leghorn, and conferences were held with A. C. Liaison (Rome), 1 District, and Regional Engineers of Emilia and Toscana and Engineer Officer P. B. S.

2. Port Reconstruction:

Requests were received from Naval Officer in Charge of Works for certain information regarding reconstruction requirements at the ports of Piumaicino, Civitavecchia, S. Stefano, Piombino, Leghorn and Viareggio. Regional Engineers concerned, with the assistance of Genio Civile Port Engineers, are securing the information and a full report will be made in the near future.

The activities of the Port of Civitavecchia

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7 Summary of Projects - Tables "A" & "B". . 11 & 12

1. Inspections.

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2. Port Reconstruction:

Requests were received from Naval Officer in Charge of Works for certain information regarding reconstruction requirements at the ports of Fiumicino, Civitavecchia, S. Stefano, Piombino, Leghorn and Viareggio. Regional Engineers concerned, with the assistance of Genio Civile Port Engineers, are securing the information and a full report will be made in the near future.

Reconstruction activities at the Port of Civitavecchia proceeded very satisfactorily during the month. The first phase objective was to effect repairs to the extent that 3000 tons per day could be handled at the Port. This objective has now been attained and further rehabilitation is progressing. Work has been hampered somewhat by delays in cement allocations and deliveries but corrective action is being taken.

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3. Housing

Approximately 220 committees have started work (in various Communes) on Housing Repairs; over 12 000 projects, of which more than 6,000 have already been completed, have been started to date. Work initiated to date amounts to 1,100 million lire.

The Housing Decrees and particularly the Local Committee ideas appear to be working well and despite initial difficulties Decrees are functioning even in forward AMG Areas.

The new Town of Cassino was dedicated with appropriate ceremonies, on 15 March with Officials of Allied Governments, Italian Government and Allied Commission attending.

Progress of housing repairs through the Month of February is shown on attached table (see Page 12 Table "B".

4. Transport and Construction Equipment.

Many items of imported road machinery arrived during the month including asphalt kettles, rock crushers, air compressors, concrete mixers and one asphalt mixing plant. These items have been allocated to operating projects of military priority and in most cases are now in operation. Thirty used 3 ton trucks were received but cancellation has been made by AFHQ of an all important item of 170 dump trucks. The over all transport problem remains critical. No additional tires were received for use by Genio Civile or contractors.

5. Withdrawal from Italian Government Territory.

By the end of the month all Officers had been reassigned to forward regions with the following exceptions:

(a) 1 American Civilian Public Works Officer - Naples Commune.

(b) 1 Roads Officer - Attached to HQ of Chief Engineer 3 District as Liaison Officer, Military Highways.

(c) 1 Ports Officer - Assigned on temporary basis to port of Civitavecchia to direct reconstruction activities until his services are required in his forward Region.

All civil functions of officers withdrawn have now been handed back to Italian representatives and responsibilities in connection with military works have been assumed by either Commander Base Section or Chief Engineer of Military District No. 3.

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6. Highways - General

On 19 March a revised schedule of AFHQ road priorities was received. Few changes in previous schedules were contained and/or emergency repairs are in progress. For many months per-

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4. Transport and Construction Equipment.

Many items of imported road machinery arrived during the month including asphalt kettles, rock crushers, air compressors, concrete mixers and one asphalt mixing plant. These items have been allocated to operating projects of military priority and in most cases are not in operation. Thirty used 5 ton trucks were received but cancellation has been made by AFHQ of an all important item of 170 dump trucks. The over all transport problem remains critical. No additional tires were received for use by Genio Civile or contractors.

5. Withdrawal from Italian Government Territory.

By the end of the month all Officers had been reassigned to forward regions with the following exception:

(a) 1 American Civilian Public Works Officer - Naples Commune.

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6. Highways - General 4389

On 19 March a revised schedule of AFHQ road priorities was received. Few changes in previous schedules were contained and/or emergency repairs are in progress. For many months particular stress has been placed on AFHQ routes to expedite the removal of bailey bridges by permanent construction. This program is well advanced and except for a few major structures in forward areas removals have been effected.

The overall bridge reconstruction program was accelerated considerably during the month by improved weather conditions and by more adequate supplies of materials. (See attached tables for progress to date).

7. The following tables show, under three main classifications the present aggregate volume of Public Works throughout liberated Italy (excluding the Island of Sardinia).

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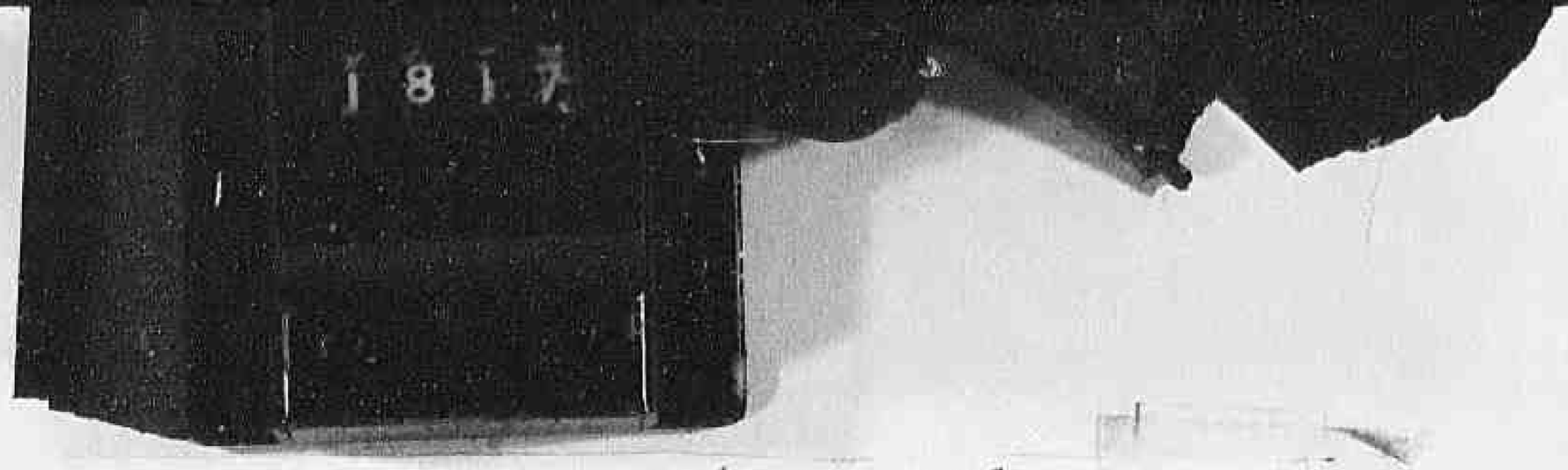

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(10)

Drawing the Islam of Sardinia).

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PUBLIC WORKS PROJECTS IN MARCH (TABLE "A")

TYPE	Initiated during Month	COST (Lire)	Completed during Month	COST (Lire)	In progress during Month
TABLE A	Schemes of Military Priority				
Roads	86	196,771,518	47	80,017,070	133
Bridges & Retaining Walls	57	80,811,572	58	43,575,971	196
TOTAL	143	277,583,090	105	123,593,041	329
TABLE B	Schemes other than of Military Priority (but for which approval of AC/ALG was required)				
Roads	74	52,533,000	107	47,008,247	158
Bridges & Retaining Walls	95	90,793,392	61	39,198,574	333
Public Buildings, Schools, etc.	59	37,609,925	20	4,696,418	260
Debris Removal & Misc.	47	14,132,616	43	18,135,790	259
Water Works, Sewers & Flood Control	86	88,142,625	23	9,413,110	227
Housing	6	5,537,200	18	13,635,500	122
TOTAL	367	289,769,758	272	132,107,669	1,349
TABLE C	Schemes handled independently by Italian Agency				
Roads	136	54,937,218	40	17,271,543	270
Bridges & Retaining Walls	59	14,582,612	37	16,978,095	208
Public Buildings, Schools, etc.	198	159,157,852	118	48,312,227	391
Debris Removal & Misc.	139	73,122,807	65	32,918,441	216
Water Works, Sewers & Flood Control	25	12,712,389	31	11,278,604	109
Housing	119	79,146,238	35	6,194,413	177
TOTAL	676	393,659,116	326	132,953,323	1,371
GRAND TOTAL	1,196	961,011,964	703	388,654,033	3,049

Bridges Completed 28 Feb 1,024
Bridges completed during Mar 156
Total bridges completed to date 1,180

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PUBLIC WORKS PROJECTS IN HAND (TABLE "A")

	Initiated during Month	C O S T (Lire)	Completed during Month	C O S T (Lire)	In progress during Month	C O S T (Lire)
Schemes of Military Priority						
	86	196,771,518	17	80,017,070	133	275,032,900
	57	80,811,572	58	43,575,971	196	354,710,312
	143	277,583,090	105	123,593,041	329	629,743,212
Schemes other than of Military Priority (but for which approval of AC/AMG was required)						
	74	52,535,000	107	17,808,247	156	387,117,722
	95	90,793,392	61	39,498,574	333	406,956,540
	59	37,609,923	20	4,096,418	260	225,401,361
Sec.	17	14,133,616	43	18,455,790	259	179,137,388
&	86	88,142,625	23	9,413,140	227	218,710,940
	6	5,537,200	18	13,635,500	122	259,035,238
	367	289,769,758	272	132,107,669	1,349	1,716,354,189
Schemes handled independently by Italian Agency						
	136	54,937,218	40	17,271,543	270	107,140,974
	59	14,582,612	37	16,978,035	208	77,639,484
	158	159,157,852	118	48,312,227	391	271,674,991
Sec.	139	73,122,807	65	32,918,441	216	184,190,318
	25	12,712,369	31	11,278,604	109	55,074,214
	119	79,146,238	35	6,194,113	177	75,939,111
	676	393,659,116	326	132,953,323	1,371	771,859,122
	1,196	961,011,964	703	388,654,033	3,049	3,117,956,323

Sec. 7

Bridges Completed 28 Feb 1,024
Bridges completed during Mar 156
Total bridges completed to date 1,180

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SUMMARY REPORT OF PROGRESS OF HOUSING REPAIRS Table "A"

Provinces of: Agrigento - Avellino - Bari - Benevento - Brindisi - Cagliari - Caltanissetta - Campobasso - Catania - Catanzaro - Chieti - Cosenza - Enna - Foggia - Frosinone - L'Aquila - Lecce - Littoria - Matera - Messina - Napoli - Nuoro - Palermo - Pescara - Potenza - Ragusa - Reggio Calabria - Rieti - Roma - Salerno - Siracusa - Taranto - Teramo - Trapani - Viterbo - (1).

THIS REPORT COVERS THE MONTH OF FEBRUARY 1945

	1 Started before Feb.	2 Started during Feb.	3 Total Col. 1 & 2	4 Approx.cost (in thousand Lire)	5 Completed by 28 Feb 1945.	6 Balance under way (Col. 3 less 5)
Projects done by the owners :						
up to 30,000 Lire	4,246	1,012	5,258	116,301	3,488	1,770
from 30,000 to 150,000 Lire	1,314	346	1,660	160,114	723	937
from 150,000 to 300,000 Lire	435	170	605	131,816	143	462
from 300,000 to 1,000,000 Lire	192	73	265	117,960	44	221
over 1,000,000 L.	25	11	36	66,319	5	31
TOTAL	5,212	1,612	6,824	619,320	3,403	3,421
Projects done by Genio Civile :						
up to 30,000 Lire	3,195	342	3,537	78,799	2,144	1,393
from 30,000 to 150,000 Lire	873	246	1,119	97,574	283	836
from 150,000 to 300,000 Lire	300	105	405	81,719	114	291
from 300,000 to 1,000,000 Lire	163	93	256	136,581	43	213
over 1,000,000 L.	23	8	31	51,442	-	31
TOTAL	4,554	794	5,348	436,109	2,584	2,764
GRAND TOTAL	9,766	2,406	12,172	1,075,429	5,987	6,185

COMMUNE COMMITTEES

	Preceding total	Total this month	New total
Working Committees	-	188	188
Advisory Committees	-	21	21
Communes as yet requiring Committees	-	218	218

(1) Matera and Lecce Report no appreciable damage.- Sassari Report not yet received.
Caserta included in the Naples Report.

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	Feb.	Dec.	1 a 2	aire)	1943.	3 mesi)
Projects done by the owners :						
up to 30,000 Lire	3,216	1,012	4,250	112,301	2,188	1,770
from 30,000 to 150,000 Lire	1,314	346	1,660	160,412	723	937
from 150,000 to 300,000 Lire	435	170	605	131,816	143	462
from 300,000 to 1,000,000 Lire	192	73	265	117,960	44	221
over 1,000,000 L.	45	11	56	66,311	5	51
TOTAL	5,212	1,612	6,824	619,320	3,485	3,421
Projects done by Genio Civile :						
up to 30,000 Lire	3,195	34-	3,537	78,799	2,141	1,393
from 30,000 to 150,000 Lire	879	240	1,119	97,571	283	836
from 150,000 to 300,000 Lire	300	103	403	81,713	114	291
from 300,000 to 1,000,000 Lire	185	93	278	136,581	43	213
over 1,000,000 L.	25	6	31	51,442	-	31
TOTAL	4,554	794	5,348	456,105	2,584	2,764
GRAND TOTAL	9,766	2,406	12,172	1,075,429	5,987	6,185

CONSULTANT COMMITTEES

	Preceding total	Total this month	New total
Working Committees	-	188	188
Advisory Committees	-	21	21
Communes as yet requiring Committees	-	218	218

(1) Matera and Lecce Report no appreciable damage.- Cassaro Report not yet received. Cassaro included in the Naples Report.

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REGIONAL REPORTS

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Reports submitted by the Regional Engineers are briefly summarized in the following pages: -

Region	Page
Southern	13
Lazio-Umbria	13
Abruzzi-Marche	14
Toscana	15
A&G 8th Army & Emilia	15
" 5th Army	16
Piemonte-Liguria-Lombardia-Venezia	16

The number, cost, and status of all projects in the several regions are included in the Summary tables on pages 11 and 12.

SOUTHERN REGION - (Regional Engineer: Maj. Wm. F. Chamberlin F.A.)

1. General -

Preparations made to discontinue the Region and hand over the Military Highway Program to the Military District:

NAPLES, AVELLINO, BENEVENTO, SALERNO.

Retaining of electricity continues; situation better. Maintenance being carried out in Caserta, Avellino, Benevento and Salerno areas. Water situation normal. Gas extended to other zones, situation normal.

BARI

Inspection tours have been more extensive and visits were made to: Taranto, Oria, Manduria, Lecce, Galatina, Brindisi and Potenza Via Route 7. Potenza office has been closed and employees discharged. Preparations have been made for the hand over of Bari office to C. R. E.

LAZIO-UMBRIA - (Regional Eng. Lt. Col. G. R. C. E. Finley, V. C., M. C., R. E.)

1. General

In accordance with directive 24 February 1945 initiation of work ceased on 16 March and Region deactivated on 31 March.

Regional activities passed to the following authorities:

(a) All projects - Umbria - Regional Eng. Marche-

Southern	13
Lazio-Umoria	13
Abruzzi-Marche	14
Toscana	15
AMG 8th Army & Emilia	15
" 5th Army	16
Piemonte-Liguria-Lombardia-Venezia	16

The number, cost, and status of 11 projects in the several regions are included in the Summary tables on pages 11 and 12.

SOUTHERN REGION - (Regional Engineer: Maj. Wm. F. Chamberlin, F.A.)

1. General -

Preparations made to discontinue the Region and hand over the Military Highway Program to the Military District:

NAPLES, AVELLINO, BENEVENTO, SALERNO.

Retaining of electricity continues; situation better. Maintenance being carried out in Caserta, Avellino, Benevento and Salerno areas. Water situation normal. Gas extended to other zones, situation normal.

BARI

Inspection tours have been more extensive and visits were made to: Taranto, Ostia, Manduria, Lecce, Gallatina, Brindisi and Potenza Via Route 7. Potenza office has been closed and employees discharged. Preparations have been made for the hand over of Bari office to C. R. E.

LAZIO-UMBRIA - (Regional Eng. Lt. Col. G. de C. E. Finlay, V. C., M. C., R. E.)

1. General

In accordance with directive 24 February 1945 initiation of work ceased on 16 March and Region deactivated on 31 March.

Regional activities passed to the following authorities:

(a) All projects - Umbria - Regional Eng. Marche-Abruzzi.

(b) Public Works - Lazio (Provinces) - Genio Civile.

(c) Mine Removal - Ministero della Guerra & Genio Civile.

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(d) Civitavecchia Harbour - t. HQ. AC P.W.& U. S/C

(e) Rome City Military Roads & Water Supply-104 CRE

(f) Electrical Section - Italian Civilian Committees.

(g) Military Highways - C. E. 3 District & PBS.

Work delayed by shortage of transport and shortage, or lack of, supplies: mainly, tires, cement bitumen, brick.

Numerous inspection trips made to various projects.

2. Public Works

Excellent progress on Harbor project at Civitavecchia.

3. Housing

New housing for 5000 people in progress and should be completed within 60 days.

Unfortunate delay to housing program caused by:

(a) Refusal of AMG Finance Section to finance works involving private homes.

(b) Insufficiency of original decree.

(c) Delay in securing Italian Governmental appr val.

4. Bonifiche

Work on the original bonifiche projects, Pontina and Littoria, largely completed with the result that the flooded areas have been reduced from a total of 13,300 hectares to 3000 hectares.

ABRUZZI-MARCHE (Regional Engineer: Lt. Col. C. A. Latimer, C.E.)

1. General

Report covers period 16 February to 15 March. Effective 16 March this region included Umoria. Arrangements made to transfer headquarters to Perugia.

2. Highways

Considerable work necessary on Highways damaged by heavy military traffic. Repairs largely dependent on securing materials.

3. Electrical

Situation greatly improved as result of allocation of

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Work delayed by shortage of transport and shortage, or lack of, supplies: mainly tires, cement bitumen, brick.

Numerous inspection trips made to various projects.

2. Public Works

Excellent progress on Harbor project at Civitavecchia.

3. Housing

New housing for 5000 people in progress and should be completed within 60 days.

Unfortunate delay to housing program caused by:

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(b) Insufficiency of original decree.

(c) Delay in securing Italian Governmental approval.

4. Bonifiche

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1. General

Report covers period 16 February to 15 March. Effective 16 March this region included Umbria. Arrangements made to transfer headquarters to Perugia.

2. Highways

Considerable work necessary on Highways damaged by heavy military traffic. Repairs largely dependent on securing materials.

3. Electrical

Situation greatly improved as result of allocation of 3500 KW from Terni. Repair of 30 KV transmission lines completed between Ancona, Fano and Pesaro.

Repairs to Sta. Caterina station completed and 400/500 KW (Direct Current) available for operation of Porto S. Giorgio-Amendola Railway.

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TOSCANA - (Regional Engineer - Lt. Col. P. S. L. Lee, R.E.)

1. General

Value of projects initiated during month exceed 167 million lire. Shortage of materials, particularly cement and brick.

2. Public Works

Temporary water supply piped into Prato from Cortesano spring, satisfactory progress on restoration of the Direttissima aqueduct in cooperation with MRS. Projects include other water systems, sewers, hospitals and schools.

3. Roads & Bridges

Sixty bridge projects initiated and 27 completed.

4. Electricity

Voltage and Frequency fairly constant. Additional power available, and changes in rationing system have permitted the supply of service to many small industries in Florence.

5. Gas - (Florence)

Gas supply now averages 6500 cubic meters of natural and 5100 cubic meters of artificial gas which are mixed and supplied to 35,000 consumers.

Plans are under way to install pipe lines on the Carrain bridge to furnish service south of the Arno.

EIGHTH ARMY AMG) (Regional Engineer - Lt. Col. N. M. Spann)
EMILIA REGION)

1. General

Shortage of supplies and transport have handicapped and delayed scheduled progress of the various projects.

2. Roads & Bridges.

Plans, estimates and specifications being prepared in offices of Genio Civile. On projects where transport and materials not available for maintenance and repair, work is confined to clearing drainage ditches and filling surface holes.

3. Housing

Work under the housing decrees of the Italian Government is proceeding in Forli Province. Projects for repairs to public building on a major scale held up pending availability of materials.

Temporary water supply piped into Prato from Carteano spring, satisfactory progress on restoration of the Direttissima aqueduct in cooperation with MRS. Projects include other water systems, sewers, hospitals and schools.

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Sixty bridge projects initiated and 27 completed.

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AMG - 5thArmy - (Engineer Officer Maj. D. M. Gaither, C. E.)

1. Pistoia aqueduct completed and ample supply of water assured.

2. Total cement available during month amounted to only 50 tons received from Army which was immediately allocated to various projects.

3. Electric power from Lima generating station permitted resumption of industrial plant at Lucca. Numerous industries in Pistoia-Lucca area will commence operation when power becomes available in April.

Piemonte-Liguria	Regional Engineer -	Col. C. R. Birchett, C. E.
Lombardia	" "	Col. C. P. Bolick, F. A.
Venezia	" "	Maj. W. Knight, M. C.

Planning continued.

E. J. Kristedt

E. J. KRISTEDT,
Colonel, C. E.
A/Director

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E. J. Aistedt

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

10 March 1945

MAR 17 1945

MONTHLY REPORT - FEBRUARY

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SUMMARY

Electrical Division

1. Central Italy Grid - Electrical service was greatly improved as a result of the successful operation of the "Central Italy Grid". Florence, most distant large city from the main centres of generation, reports that voltage, during period of maximum demand, has been increased by approximately 20%.

2. Advisory Committees - Italian Advisory Committees on Electric Power are now functioning in Central and Southern Italy. During February, Committees were organized in Sicily and Sardinia. The next development will be formation of a National Committee composed of representatives of the various regional groups.

3. Canterno Generating Station - The Canterno Generating Station of 10,000 KW capacity, was completed and connected to the transmission network. Construction of this plant was commenced prior to the war, and suspended in 1943. During German occupation employees of the company buried parts of machinery at various places, and after liberation this equipment was salvaged, and construction resumed.

4. Utility Rates - From December 1943 to January 1945 the Sub-Commission had final authority in regard to Utility (Water, Gas and Electricity) Rates. The procedure has been changed, and we are relieved of the major responsibility.

5. Gas System - Florence - Operation of the Florence Gas System was resumed on 18th February. The gas now supplied is a mixture of natural gas, piped to Florence from Pietramala (near Futa Pass) and gas manufactured from imported coal, local lignite, and olive husks.

Public Works Division

6. Withdrawal of Officers - Arrangements were completed for withdrawal of AC Officers from the Southern Region, and transfer of their Military Highways responsibilities to representatives of the Military District. The Chief Engineer of the District estimated that the one AC Officer in each of the six Sub-Areas will be replaced by :

    1 - Roads Officer
    1 - Foreman of Works
    1 - Non-Commissioned Officer
    1 - or 2 Civilian Clerks

    Financing and final approval of all Military Highway work remains the responsibility of the Sub-Commission.

7. Construction Equipment - Certain items of highway construction equipment have been received, and are being assembled. An adequate staff of Italian operators and maintenance personnel, to function

increased by approximately 20%.

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Financing and final approval of all Military Highway work remains the responsibility of the Sub-Commission.

7. Construction Equipment - Certain items of highway construction equipment have been received, and are being assembled. An adequate staff of Italian operators and maintenance personnel, to function under the Ministry of Public Works, is being organized to use this equipment. When sufficient items become available to equip complete construction units, an immediate up-trend in efficiency is anticipated.

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8. Lack of Transport - The effectiveness of the entire reconstruction programme is seriously hampered by shortage of transport, and there is a progressive decline in the number of vehicles available in operating condition.

9. Projects

The status of all Public Works projects in February is :

	Total Number	Cost Lire
Projects initiated during month	1474	1,002,818,275
" completed " "	613	416,717,552
" in progress " "	2484	2,635,877,483

2. Projects

The status of all Public Works projects in February is :

	Total Number	Cost Lire
Projects initiated during month	1474	1,302,818,275
" completed " "	613	416,717,552
" in progress " "	2424	2,635,877,483

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PERSONNEL

Total officer strength is 78, distributed as follows:-

Headquarters	11
Public Works Division	46
Electrical Division	21

Included in the above are 9 officers assigned to Austria, 7 in the Public Works, and 2 in the Electrical Division.

Personnel changes during the month were as follows:-

2 - Officers transferred (including the Deputy Director (B) now in the United Kingdom)

3 - Officers assigned.

These changes are included in the preceding summary.

Other personnel include 5 EM/ORs and one civilian stenographer (A).

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ELECTRICAL DIVISION

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1. Master Control Centre - Central Italy

The "Central Italy Electric Grid ", with a master control centre located in Rome, has been described in detail in previous monthly reports. Successful operation of the plan has resulted in greatly improved frequency and voltage conditions throughout transmission and distribution networks.

2. Advisory Committees on Electric Power.

The Italian Advisory Committees on Electric Power for Central and Southern Italy are now functioning, and regular monthly meetings, at which recommendations are made and submitted to the Ministry, are being held. The Chief of the Electrical Division is temporary Chairman of each of these Committees, but it is anticipated that A.C. officers will withdraw entirely at a very early date, depending upon progress made by these Committees in rehabilitation planning.

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During the month the Chief of the Electrical Division and a representative of the Italian Ministry of Public Works visited Sardinia and Sicily. Committees were formed to advise on the electric power situation in each of these islands. Satisfactory meetings of the newly formed committees were held, and the minutes will be circulated.

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It is now proposed to proceed to the further stage of forming a National Committee which will be constituted of members selected from each of the Regional Committees plus some additional experts who are now being chosen.

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It should be noted that the Advisory Committees on Electric Power are of a technical nature and will be used by the Ministry to advise on all matters connected with electricity supply.

One of the many functions which the Regional Committees will deal with is that of advising the Ministry, A.C. and the Military in case of strikes or unrest which may cause interruption to electricity supplies.

One important factor should be stressed in connection with the formation of these Committees and that is that the plan has been received by the Italians with considerable enthusiasm and the members on the Islands feel that by having a representative on the National Committee, they will, for the first time, have a voice in national planning affecting their islands.

3. Electrical Reconstruction Committee.

The monthly meeting of the Electrical Reconstruction Committee was held on 20 February when the Electrical Division Submitted its report on progress of electrical rehabilitation throughout Italy. The Committee expressed satisfaction at the improvement in frequency and voltage due to the interconnection of the Central Italy grid system, now operating under Master Control.

4. Northern Office - Florence

The advance office of the Electrical Section maintains close contact with the rehabilitation programme in the northern section of Liberated Italy.

Close liaison has been established with military units and with the Electrical Companies which supply service in this area. Particular attention is given to expediting the long range rehabilitation programmes of the Selt-Valdarno and Larderello Companies.

By agreement with the Industry Sub-Commission efforts are being made to assist in the rehabilitation of industrial establishments whose products are essential to the electrical reconstruction programme.

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5. Power Allocation

Representatives of the Electrical Division attended the monthly meeting of the Electric Power Committee of the Allied Forces Local Resources Board. The present demand for electricity from the Central Italy grid did not allow of any further allocations for the month of March. The Committee were informed that additional generating capacity would be available during April.

Some additional demands were allowed for Southern Italy, and as the effect of seasonal loads will make available additional capacity, it is anticipated that further high priority loads can be approved during April.

6. Generation

Available capacity in Southern Italy decreased by 11,650 KW due to decreases in stream flow.

Generating capacity available in Central Italy in February was increased by 17,307 KW over and above the preceeding month. This included a new station at Canterno that was only partially completed when this territory was liberated and is the first new station activated under Allied supervision. The plant has a total capacity of 10,000 KW. It is not designed for continuous operation, but will be used during "peak load" periods to supply power to the Central Italy Grid. The station was officially dedicated by the Minister of Public Works and the Director of this Sub-Commission on 25 February. Construction of the Canterno Station was started before the war, but work was suspended in 1943. The machinery was buried at scattered points by representatives of the Company during the German occupation and construction was resumed after liberation.

7. Transmission

Rehabilitation of the transmission system included completion of the following :-

43	Km.	150,000 Volt line
5	"	120,000 " "
130	"	60,000 " "
22	"	30,000 " "
TOTAL 200	Km.	

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Repairs were completed, and a 5,000 KVA synchronous condenser placed in service at the Tor di Quinto substation (North Rome). Operation of this machine results in improved Power Factor and voltage regulation on the Central Italy Grid.

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8. Financing of War Damage to Electric Systems.

Decree N°397 dated 15 November 1944 appropriated 500,000,000.= lire to be loaned to Electric Utility Companies for financing repairs to war damaged properties. Additional legislation was enacted on 3 January 1945 which established the following specific allocations :-

- Lazio

Azienda Comunale Elettricity ed Acque.....	L.	45,000,000.=
Società Romana di Elettricità	"	90,000,000.=
Società "Terni" per l'Industria e l'Elettricità	"	120,000,000.=

- Campania

Ente Autonomo Volturno	"	25,000,000.=
Società Meridionale di Elettricità	"	95,000,000.=
Società Elettrica della Campania	"	35,000,000.=

- Abruzzi

Società Unione Esercizi Elettrici	"	45,000,000.=
TOTAL	L.	455,000,000.=

The above allocations leave only 45,000,000.= lire of the original appropriation. The Government is now considering a new appropriation of one billion lire, and suggestions as to the specific allocation of this sum have already been made.

9. Utility Rates.

The existing procedure relative to rate adjustments was reviewed in the January report. This Sub-Commission no longer makes the final decision as to rates in AMG territory, or consults with the Ministry of Public Works relative to rates in Italian Government territory. Recommendations are now made to the Price Group of the Economic Section. The first specific recommendations of this Sub-Commission to the Price Group were rejected by a 4-3 vote pending the receipt of additional information which Utility Companies must furnish, but which is practically identical to that which this Sub-Commission has required since January 1944.

Under present procedure this Sub-Commission cannot be held responsible if any company in AMG territory is forced to cease operations because of lack of revenue.

A new Decree on Utility Rate procedure has been under consideration for some time. It is hoped that, when passed, it

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10. Supplies

Demands for supplies and material in connection with electrical rehabilitation continue to be heavy and varied, but all requirements for February were met.

Several demands have had to be passed to Economic Section for import, owing to the fact that the material required no longer exists in Liberated Italy.

Bricks and tiles are becoming scarce but it is hoped to supply electricity to the brick kilns so that production can recommence.

The supply of coal to the Rome Power Stations was maintained during February and a reserve is being accumulated.

Approximate amounts of materials supplied during the month were :-

Cement	1,500	Tons
Bricks and tiles	200	"
Steel work	250	"
Transformer oil	150	"
Conductor	20	"
Piping	6	"
Numerous small incidental Items		

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PUBLIC WORKS DIVISION

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1. Withdrawal of A.C. Officers from Southern Region.

Two meetings were held with the Chief Engineer of No. 3 District. The first one was attended by the Director of the Sub-Commission and the Chief of the P.W. Division, and the latter by the Chief of the P.W. Division.

As a result of these discussions arrangements were made for the coming withdrawal of all A.C. Engineer Officers from Southern Region and the transfer of their Military Highway responsibilities to representatives of the Military District. The organization and supervision of the field work will be handled by the Sub-Areas of the District along similar lines to the present A.C. system with general supervision and control being exercised by the Office of the Chief Engineer. At the request of the Chief Engineer, one A.C. Officer will be attached to District H.Q. in an advisory capacity and as Liaison Officer with this Sub-Commission. Financing and final approval of all Military Highway work will remain the responsibility of this Sub-Commission. It was interesting to note that the Chief Engineer, in preparing for the taking over of field duties from A.C., estimated that the following personnel would be required in each Sub-Area to replace the one A.C. Engineer Officer:-

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1 or 2 civilian clerks.

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More than a year ago this Sub-Commission, at the request of AFHQ, assumed the direction of Military Highway reconstruction in Southern Areas in order to release Military Units for vital work in other Areas. These new plans now represent a complete reversal of that trend. Many of the Highways are still of military significance, therefore, due to the cessation of A.C. Activities in Southern Areas, the various military Units must again assume certain responsibilities which they had so willingly delegated to this Sub-Commission.

2. Inspections.

Special inspections were made by Engineer Officers of this H.Q. covering the following Routes :-

Route 1. Rome to Genzano
Route 2. Rome to Orvieto
Route 3. Rome to Foligno
Route 4. Rome to Rieti
Route 6. Rome to Caserta
Route 7. Rome to Caserta
Route 18. Naples to Battipaglia
Route 19. Battipaglia to Cosenza
Route 79. Terni to Orvieto
Route 77. Foligno to Macerata
Route 16. Ancona to Pescara
Route 17. Pescara to Aquila

Visits were also made to Regional Engineers' Offices in Abruzzi-Marche, Southern and Lazio-Umbria Regions.

3. Airfield Roads - Foggia.

Requests were received from the Air Force Command for assistance in repairs and maintenance of approximately 125 miles of roads in the Foggia Area which are necessary as access roads to various Airfields. As the major part of this mileage is of unpaved waterbound macadam type of surface, extreme difficulty has been encountered in maintenance under heavy traffic. An Officer of the H.Q. staff was dispatched to Foggia to investigate

certain responsibilities which they had so willingly delegated to this Sub-Commission.

2. Inspections.

Special inspections were made by Engineer Officers of this H.Q. covering the following Routes :-

Route 1. Rome to Genzano
Route 2. Rome to Orvieto
Route 3. Rome to Foligno
Route 4. Rome to Rieti
Route 6. Rome to Caserta
Route 7. Rome to Caserta
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4. Highway Construction Equipment.

Last month's report stated that certain items of the construction equipment had been made available. These items have now been taken over and are being assembled for use. Mr. F.O. Griffith, American Civilian, has been placed in charge of all equipment and under his direction an Italian organization is being set-up under the Ministry of Public Works. An adequate staff of operators and maintenance men will be trained and assigned on a permanent basis.

Advice has just been received that additional items are enroute and will be available in the near future, arriving at various ports, including graders, air compressors and bitumen sprayers. When sufficient items have been received to organize complete construction units, an immediate up-trend in efficiency and results may be expected.

5. Port Reconstruction.

No new work was undertaken during the month. The major rehabilitation program at Civitavecchia progressed in a satisfactory manner, with increased efficiency, as necessary equipment arrived. All required equipment and materials are now on job site and completion on schedule can be expected.

6. Transport.

The desperate situation with regards to transport which was outlined in last month's report remains unchanged except for a progressive decline in the number of vehicles available in operating condition. The 100 tires and tubes which were received during the month made it possible to place a few vehicles back on the road, but due to general depreciation of trucks and automobiles, no net gain resulted. The effectiveness of the entire reconstruction program is limited by the amount of available transport and the current inadequacy is reflected in exorbitant unit prices and production tie-ups. This critical situation applies not only to contractors and Genio Civile but also to Regional Engineers, Field Engineers and Headquarters Officers whose effectiveness have been considerably reduced by inadequate or inefficient transport.

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7. Forestry Roads - Calabria

An urgent request was received from H.Q. 3 District and from A.F.H.Q. for assistance in repairing roads in Calabria which were required by Military Units in timbering activities. A Public Works Officer of H.Q. was sent to the Area to make an investigation. It developed that the roads in question are unpaved mountain roads with very poor alignment and grades, and not designed for heavy traffic. Civilian contractors were placed to work immediately on roads and bridges. Our Officer is now in the Calabria Area inspecting these roads in company with the Chief Engineer of 3 Military District.

8. Clothing Allotment.

A substantial allotment of salvaged clothing has been received and turned over to the Ministry of Public Works for issue to workmen on highways and utilities. Cantonieri employed by Genio Civile and contractor's employees working on sewers, foundations, and bitumen surfacing will be given priority in the initial issues as their need is deemed most critical.

9. Housing.

During February, the Ministry issued to its officers and other officials (throughout liberated Italy) a number of circulars containing instructions detailing the operations of the Housing Decrees promulgated in January 1945. They also posted large Proclamations in all devastated Communes; these informed the public in simple language concerning the Housing Decrees.

Unofficial preliminary reports indicate that the public, and the officials, are enthusiastic about the prospects of some early relief.

The preliminary reports indicate that well over one hundred Communes have already organized Committees, and begun repair projects. Considering that this information comes from only a very few provinces, it is probable that a great many more Committees may have already been organized throughout liberated Italy. For example: of 13 Committees required to handle all the work in the Province of Rieti, 11 are already functioning.

4387

The officials of the Public Works Ministry express themselves as highly gratified with the results so far obtained, and their actions indicate that they are aggressively pushing this Housing Repair program.

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The Minister has also promulgated a number of other Decrees which should result in the quick repair of existing damaged "Case Popolari" (large non-profit apartment houses) and the planning and erection of many new such buildings.

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Definite arrangements were made by the P.W. Ministry to erect a new town at Cassino, the major devastated portion of which is to become a National Monument. Dedication of this new town has been set for March 15, 1945.

The Public Works Ministry is following a dual program whose purposes are to increase the output of their required building construction materials, and to promote proper allocation and distribution at controlled prices.

To this end they are working (through Committees formed for that purpose) with the Ministry of Industry, Commerce and Labor, and with all appropriate Sub-Commissions of the Allied Commission; to date however, very little improvement over previous conditions has been achieved.

Movements of finished construction materials from factory to building sites have improved only very slightly, and output of many factories is seriously hampered by lack of electric energy. Transport, although improved, still presents a very serious problem.

10. Volume and Value of Public Works.

The following tables have been prepared to show, under three main classifications, the present aggregate volume of Public Works throughout liberated Italy (excluding the Island of Sardinia).

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Summary of Public Works Projects in February *

TYPE	Initiated during Month	COST (Lire)	Completed during Month	COST (Lire)	in progress during month
TABLE A — SCHEMES OF MILITARY PRIORITY					
Roads	100	132,335,790	38	65,230,245	160
Bridges	60	145,469,782	74	67,517,880	196
TOTAL	160	297,805,572	112	132,748,125	356
TABLE B — SCHEMES OTHER THAN OF MILITARY PRIORITY (BUT FOR WHICH APPROVALS OF AC/ALG WAS REQUIRED)					
Roads	113	61,226,297	13	7,843,000	164
Bridges	134	136,799,689	56	36,353,923	264
Public Buildings, Schools, etc.	110	60,608,348	18	33,099,950	246
Debris Removal	68	47,362,290	31	19,945,600	210
Water Works, Sewers, & Flood Control	68	56,061,858	20	11,944,948	204
Housing	24	44,831,500	2	545,000	92
TOTAL	577	406,890,082	140	109,734,421	1,180
TABLE C — SCHEMES HANDLED INDEPENDENTLY BY ITALIAN AGENCY					
Roads	104	19,906,728	56	17,631,771	91
Bridges	93	15,209,946	108	29,957,415	82
Public Buildings Schools, etc.	331	136,289,466	91	85,070,621	339
Debris Removal & Misc.	68	20,193,361	77	31,460,059	181
Water Works, Sewers, & Flood Control	81	21,983,273	17	7,544,680	40
Housing	60	24,489,847	12	2,570,466	155
TOTAL	737	298,122,621	361	174,235,006	888
GRAND TOTAL	1,474	1,002,818,275	613	416,717,552	2,424

Bridges Completed 31 Jan - 786
Bridges Completed during Feb. - 238
Total bridges completed to date - 1.024

* Regions included: Emilia, -Marche, Lazio-Umbria, So

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Summary of Public Works Projects in February *

Initiated during Month	COST (Lire)	Completed during Month	COST (Lire)	in progress during month	COST (Lire)
SCHEDULES OF MILITARY PRIORITY					
100	152,335,790	38	65,230,245	160	291,344,673
60	145,469,782	74	67,217,880	196	279,746,683
160	297,805,572	112	132,718,125	356	570,091,356
SCHEDULES OTHER THAN OF MILITARY PRIORITY (BUT FOR WHICH APPROVALS OF AC/ALG WAS REQUIRED)					
113	61,226,297	13	7,843,000	161	275,232,771
134	136,799,689	56	36,353,923	264	292,307,891
140	60,608,348	18	33,099,950	246	209,589,521
68	47,162,290	31	19,945,600	210	156,540,137
68	56,061,858	20	11,944,948	204	243,733,746
24	44,631,500	2	545,000	92	207,534,738
577	406,890,082	140	109,734,421	1,180	1,385,138,804
SCHEDULES HANDLED INDEPENDENTLY BY ITALIAN AGENCY					
104	19,906,728	56	17,631,771	91	84,688,320
93	45,259,946	108	29,957,415	82	47,967,198
331	136,289,466	91	85,070,621	339	385,995,448
68	20,193,361	17	31,460,053	181	69,624,320
81	21,983,273	17	7,544,680	40	32,981,414
60	21,489,847	12	2,570,466	155	59,390,423
737	298,122,621	361	174,235,006	888	680,647,323
1,474	1,002,818,275	613	416,717,552	2,424	2,635,877,483

Bridges Completed 31 Jan - 786
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* Regions included: Emilia, Toscana, Abruzzi-Marche, Lazio-Umbria, Southern & Sicily.

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REGIONAL REPORTS - INDEX -

Reports submitted by the Regional Engineers are briefly summarized on the following pages :-

		PAGE
Sicilia	Region	17
Southern	"	17
Lazio-Umbria	"	18
Abruzzi-Marche	"	19
Toscana	"	20
A.M.G. 8th Army & Emilia	"	21
A.M.G. 5th Army	"	23
Piemonte, Liguria, Lombardia & Venezia	"	24

The number, cost and status of all projects in the several Regions are included in the "Summary-Public Works Projects in February " on page 15.

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SICILIA REGION - (Regional Engineer: Major D.A. BOYD, R.E.)

1. General

All the larger cities were visited and the officials informed of the new decrees relative to housing. Local committees are being formed to handle these projects.

Lack of transport continues critical.

2. Electricity - Water - Gas.

Production and distribution of electricity are satisfactory.

Water service is normal.

There is no gas service, due entirely to the fact that no coal has been allocated for this service.

SOUTHERN REGION - (Regional Engineer: Major W.F. CHAMBERLIN)

1. General

Progress on Military Highways has been complicated due to closing of field offices at Catanzaro, Caserta, and Salerno.

2. Electrical

Repairs to the 18000 KW. unit at Crecchiella are progressing satisfactorily, and this unit should be in operation before the first of April.

Electricity continues to be rationed for civilian uses.

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LAZIO-UMBRIA REGION (Regional Engineer:
Lt.Col. G. de C.E. FINDLAY, V.C.,M.C.,R.E.)

1. General

Work delayed by shortage of transport, and shortage, or lack of, supplies; mainly tires, cement, bitumen.

Numerous inspection trips were made, including projects involving roads, harbour improvement, sewers, drainage, and miscellaneous construction.

2. Public Works

Harbour improvements are proceeding at Fiumicino and Civitavecchia. Thirty seven small craft have been raised at Fiumicino.

3. Housing

Progress at Formia, Castelforte, Terracina and Cisterna is satisfactory.

4. Bonifiche

Eighteen million lire project at Pontina completed. Work progressing on three pumping plants; eight have been completed. Twenty three million lire project at Littoria well advanced, thirty three temporary wooden bridges 75 % completed, and rehabilitation of pumping station commenced.

5. Electrical and Mechanical Section

Provincial civilian committees to handle rationing of electricity have been organized in all provinces.

6. Gas

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The coal allotment to the Rome gas works has been increased from 150 to 300 tons per day. This will permit continuous operation, with consumption rationed to consumers. The present coal allocation enables the Gas company to produce approximately fifty per cent of the products manufactured prior to the war.

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7. Mine Clearance

561 Company collected 368 mines during the month, increasing the total number to 2038.

Under civil contracts 1124 mines were removed increasing the total to 5944.

ABRUZZI-MARCHE REGION - (Regional Engineer: Lt.Col.C.A.LATIMER, C.E.)

1. General

The road to Avezzano-Aquila was opened on 7 Feb, and closed the following day by snow drifts. It was reopened on the 9th and has remained open since that date.

The Pescara-Aquila-Antrodoco has been cleared of snow and is open to traffic. One thousand men were employed on this project for the greater part of a week.

Progress limited due to lack of transport.

2. Public Works - Housing.

Housing projects initiated in Ancona have made litte progress because of lack of materials. Some progress has been made in Abruzzi, and public building construction is underway throughout the region.

3. Electrical.

Reconstruction work continues at Pescara III, IV and Aventino.

Breakdowns occurred at Carassai and Tolentino.

Repairs on the 450 KVA generating unit at Macerata are completed and the 295 KVA set will soon be ready for service.

The 30000 Volt transmission line from Ancona to Fano has been extended and completed to Pesaro. The line from Terni to Ancona is completed.

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TOSCANA REGION - (Regional Engineer: Lt.Col. P.S.L. LEE, R.E.)

1. General

At the request of the City of Florence, A.M.G. organized a competition among local architects and engineers for the design of a bridge over the Arno River. This bridge is to replace the Ponte alla Vittoria, destroyed by enemy action. Forty three entries, including complete designs, were submitted to the Local Committee appointed to judge the competition. This excellent response is a concrete testimonial to the civic spirit of the people of Florence.

With the cooperation of 5th Army and 1 District factories producing cement, lime and bricks, have been reactivated.

2. Roads and Bridges

(a) The piers of the Ponte alla Carraia are completed. Designs have been received, and bids opened, for the Ponte S. Nicolò (Ponte di Ferro). Both of these bridges span the Arno at Florence.

(b) An extensive program of bridge reconstruction has been planned, and actual construction will start as soon as danger of seasonal flooding is past.

3. Public Works

Work in progress, or in the planning stage, includes:

(a) The Prato aqueduct.
(b) Flood Control Works of Val di Chiana.
(c) Rehabilitation of University Buildings at Pisa.
(d) Harbour repairs at Piombino, Porto S.Stefano and Porto Ercole.
(e) Miscellaneous school buildings.

4. Electricity

The Voltage and Frequency conditions were greatly improved as the result of operation of the Central Italy Grid System. Voltage during peak hours increased by as much as 20%.

A new electric rationing-plan has been adopted in Florence. As a result of 95 investigations, eight consumers with a total electrical load of 190 KW. have been disconnected for violations of rationing regulations.

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5. Gas

On 18 February 1945 Brigadier General Erskine Hume, G-5, 5th Army, officially turned on the gas supply for the City of Florence.

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The Gas plant and distribution system were severely damaged by war, and the resumption of service is the result of five months effort by the Gas Company, 5th Army, and A.M.G.

The gas presently supplied consists of a product manufactured from imported coal, local lignite, and olive husks. Mixed with this, is natural gas piped to Florence from the fields at Pietramala. The natural gas is also compressed into cylinders and used as fuel for vehicles.

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EIGHTH ARMY A.M.G.
EMILIA REGION
) - (Regional Engineer: Lt.Col. W.M. SPANN)

1. General

Specialist officers assigned to Emilia Region also operate in 8th Army territory. Important activities include:

(a) Bridge construction and Road maintenance on Route 71, San Marino Road West of Rimini, Cesena Rimini road, and miscellaneous important civilian roads.

(b) Repairs to water system at Tredozio (Forlì Province).

(c) Reconstruction and rehabilitation of dykes, pumping stations and drainage systems East and South of Ravenna.

It is estimated that approximately 700 bridges were destroyed by enemy action in Ravenna and Forlì Provinces, and one hundred of these will have to be repaired, or reconstructed, to provide supply routes to centers of populations.

2. Roads and Bridges

Progress on work under contract during the month was unsatisfactory due to bad weather, transport difficulties, and shortages of essential materials.

3. Public Works - Utilities - Housing - Drainage.

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3. Public Works - Utilities - Housing - Drainage.

Civilian Housing committees have been formed at Rimini and are functioning smoothly. Revisions are being made in plans to house 20,000 homeless people.

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Approximately 60% of the streets in Rimini have been cleared of debris.

Plans and estimates for repairs to water and sewer systems at Rimini submitted. Repairs to Water systems at S.Sofia, Tredozia and Forlì completed.

Good progress has been made in drainage of flooded areas South and East of Ravenna. The following table summarizes data on 5 pumping stations:-

BONIFICA DATA 27 Feb. 45

Name of Area	Pumping Station	HECTARES				Pumps functioning	When Pumps started
		Size Area	Area under pump	Area flooded	Remaining flooded area		
Arla-Savio	Madonna del Pino Tagliato	27500	3000	4000	1000	yes	15 Dec.44
Fosso Chiaia	Fosso Chiaia	19000	6000	12000	2000	yes	30 Jan 45 1st 10 Feb 45 2nd 25 Feb 45 3rd
III Basin & Porto Fuori	III Basin Fagoli S.Vitale Rasponi	21000	100 250 800 1200	2350	1000	yes yes yes no	20 Dec 44 10 Feb 45 15 Feb 45 --------

The Madonna del Pino station will also be used to de-water the Cervia salt beds.

Major breaks in River banks have been repaired, and obstructions to stream flow caused by destroyed Railway and Highway bridges cleared by 8th Army Engineers.

All breaks in canal banks have been permanently or temporarily repaired.

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4. Electricity

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Pumping Stations:-

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		Size Area	Area under pump	Area flooded	Remaining flooded area		
Arla-Savio	Madonna del Pino Tagliato	27500	3000	4000	1000	yes	15 Dec.44
Fosso Chiaia	Fosso Chiaia	19000	6000	12000	2000	yes	30 Jan 45 1st 10 Feb 45 2nd 25 Feb 45 3rd
III Basin & Porto Fuori	III Basin Fagoli S.Vitale Rasponi	21000	100 250 800 1200	2350	1000	yes yes yes no	20 Dec 44 10 Feb 45 15 Feb 45 --------

The Madonna del Pino station will also be used to de-water the Cervia salt beds.

Major breaks in River banks have been repaired, and obstructions to stream flow caused by destroyed Railway and Highway bridges cleared by 8th Army Engineers.

All breaks in canal banks have been permanently or temporarily repaired.

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4. Electricity

The electric supply in Forlì and Ravenna is controlled by 8th Army Engineers who exercise technical supervision over plant

operation, and ration the meager supply available.

Seven plants with a combined capacity of 1840 KW. are in operation, but of this total only 380 KW are connected to the transmission grid. The total supply available is approximately 25% of the installed pre-war capacity; however, this figure is not an accurate measure of the power shortage, because normally a majority of the electric supply in this area was furnished to the transmission net work from large plants north of Venice, and from the Terni group.

On 19th Feb. the 30,000 Volt line from Ancona to Rimini was energized. This line supplies a maximum of 200 KW.

Because of the extreme shortage of electricity, power is available only to Military priority projects.

A.M.G. - 5th ARMY - (Engineer Officer: Major D.M. GAITHER)

1. General

One hundred and seventy tons of cement released by the PBS was shipped to Lucca for use in bridge construction.

2. Electrical

In cooperation with PBS and 5th Army units, work is progressing on the generating plant at La Lima. 1500 KW. will soon be available, and 500 KW. will be allotted to AMG. This allocation will be used to activate textile and brick establishments in Lucca, and shoe factories in the vicinity of Monsummano.

An additional allocation of power made it possible to de-water flooded lands near Viareggio. The land is now ploughed and planting is in progress.

3. Public Works

The Piteccio Aqueduct supplementing the Pistoia Water supply was completed on 21 February.

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from the Forni group.

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PIEMONTE)
) - (Regional Engineer: Lt.Col.C.R.BIRCHETT, C.E.)
LIGURIA)

LOMBARDIA - (Regional Engineer: Lt.Col.C.P. BOLICK)

VENEZIA - (Regional Engineer: Major W. KNIGHT, M.C.)

Planning continues.

L.K. JENNY,
Colonel, C.E.,
Director.

Declassified E.O. 12356 Section 3.3/NND No. 785017

[redacted] - (Regional Engineer: Lt.Col.C.P. BOLICK)

VENEZLA - (Regional Engineer: Major W. KNIGHT, M.C.)

Planning continues.

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

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