

ACC CEB/18/1/2

10000/150/726

ROME, EMER
DEC. 1943 - JU

10000/150/726

ROME, EMERGENCY POWER PLANTS
DEC. 1943 - JUNE 1944

CONFIDENTIAL

A.A.I.
CENTRAL ELECTRICAL BOARD
APO 400

REF: CEB/18/1/2
23 June 44.

SUBJECT:- 10T Diesel Generating Plant

TO:- Flag Officer, Western Italy.

Replying to your letter, Fowit 231 dated 20 June 44,
it is confirmed that operating personnel for the above
will be available for one month to commence from date
of transfer.

JAMES P. GROWDON,
COLONEL CE,
Vice Chairman, AAI - C.E.B.

COPY TO:- CE 3 District.

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CONFIDENTIAL

Office of Flag Officer,
Western Italy,
Naples.

20th June, 1944.

No. FOWIT 231.
VICE CHAIRMAN,
ALLIED ARMIES IN ITALY CENTRAL ELECTRICITY BOARD.

L.C.T. DIESEL GENERATING PLANT.

With reference to your letter ref. C.E.B./18/1/2 dated 12th June, para. 3, confirmation is requested that the period of availability of the present operating personnel will commence from the date of transfer of the vessel to a forward port.

P. Appelt
for REAR ADMIRAL.

3 Dist confirmed by telephone, letter to follow.
24/6/44. Done

412

A.A.I.
CENTRAL ELECTRICAL BOARD
APO 400

REF: CEB/18/1/2

12 June 1944

SUBJECT:- Allocation of L.C.T. Diesel-Generator Plant

TO:- Flag Officer, Western Italy, Naples.

1. Complying with your request of 10 June 44, the AAI Central Electrical Board has allocated the L.C.T. recently equipped with diesel-generator plant to the Royal Navy, to be used for the early establishment of essential electrical services in newly occupied ports.
2. This allocation is made on the understanding that should the Military Services urgently require the use of this diesel electric L.C.T., it will be returned to the control of the AAI Central Electrical Board.
3. CM 3 District has agreed to loan the operating personnel now on this L.C.T. to the Royal Navy for its operation, for a period not exceeding one month.
4. The L.C.T. above referred to is immediately available.

JAMES P. CROWDON,
COLONEL CE,
Vice Chairman, AAI - C.E.B.

COPY TO:-

CE HQ AAI
DW HQ AAI (Lt-Col. W.A.R. SMITH RE)
CC PBS (Col. D.S. BURGESS)
HQ ACC (Lt-Col. W.N. LAPPER)
CM 3 District
Supt Elect. Engineer, R.N.
Lt-Col. G. COOLLY, for information.

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Office of Flag Officer,
Western Italy,
NAPLES.

10th June, 1944.

No. POWIT 251.
COLONEL J. CROWDEN, C.E.,
VICE CHAIRMAN, AAI, CENTRAL ELECTRICAL BOARD.

It is understood that the L.C.T. recently equipped at CASTELLAMARE with diesel-generator plant to enable temporary electric supplies to be given in ROME, is not now required for that service.

Under these circumstances, and observing the necessity for early establishment of essential electrical services in newly occupied Ports, it is suggested that the vessel, if not required by the Military for other purposes, should be allocated for use by the Royal Navy.

In event of your agreement to this proposal, it would be appreciated if arrangements could also be made for the services of the Military personnel at present detailed for operation of the plant, to remain available temporarily - until such time as suitable reliefs can be provided by the Navy.

J. J. J. J.
REAR ADMIRAL.

Subject :- Heating Power Units

Floating -

Directorat of Works,
H.Q.A.A.I. (Adm Ech)
C.M.F.

2052/DDW

25 March 1944

To: The Central Electrical Board
c/o APO 400

Herewith copies of letters 2052/DDW dated 20 March 44 and
2131/2/Q2 dated 19 March addressed to ~~the~~ No 3 District, *NO. 3 Dist*
respectively.

WARS/BO

W.A.R. Smith
W.A.R. SMITH,
Lt. Colonel, R.E.
for Brigadier;
D.D.W.

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(copy)

Subject:- Improvised Floating Power Plant for RomeHQ AAI (Adm Ech),
C.M.F.

2131/2/Q2

No 3 District

19 Mar 44

1. The Central Electricity Board Italy has allotted the task of providing improvised floating power plant for Rome to Works Services British, and preliminary arrangements are now in hand at Castellammare R.M. Base Engineer Workshops.
2. The intention is to provide electric power up to 2000 KW on L.C.Ts which are being made available by the Flag Officer, Western Italy, Navy House, Naples. These craft are non operational and may therefore be retained for this purpose. They will be towed from Naples to a suitable berth near Rome from which connections can be made to the local supply system.
3. You will take over responsibility for this work from D.D.W., A.A.I. who has made all preliminary arrangements and who will forward all Technical details to your Chief Engineer.
4. You will also arrange to provide crews specially trained to operate this plant. They will accompany the plant to ROME and will be responsible for its continuous operation and maintenance on arrival.
5. The L.C.Ts with generating sets are to be ready as soon as possible as they will be required to move within 24 hours of the occupation of ROME. Arrangements for the move will be made by this HQ.

(sgd) D. LOGAN GRAY
for Major General,
Chief Administrative Officer.

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SUBJECT :- Floating Power Units -
- Technical Instructions.

Directorate of Works,
 HQ A.A.I. (Adm Encl),
 C. M. F.

2052/DDW

To :- CE 3 District

20 Mar 44

1. Provision of floating power units to provide electrical power for ROMS has been ordered, see A.A.I. Admin Echelon letter Ref 2151/2/02 dated 19 Mar 44.

2. The Flag Officer Western ITALY has already allotted L.C.T. No 606 at present at CASTELLAMARE R.N. Repair Workshops, where preparations for its use are in hand. Other Naval craft will be required later as suitable generator sets become available and arrangements with the R.N. will be made by this HQ for the necessary craft.

3. A brief report of the situation as it exists at present is given herewith :-

L.C.T. No 606 is being fitted at CASTELLAMARE dockyard. The work is being carried out by R.N. V/Capt LOWELL of this HQ is on site supervising the assembly of all plant and its preparation for installing in the L.C.T. This Officer is at your disposal for this work and may be retained to complete the work he has started. As arranged with you, 110 Army Troops Coy is supplying NCOs at CASTELLAMARE and NAFLIES working under S/Capt LOWELL.

4. Preparation of L.C.T.

Drawings, prints of which are enclosed, have been prepared for the modification of the dock and fitting each generating set, transformers and other electrical gear.

5. Generators to be installed.

Set 1.	260 KW	500 V	45 cycle generator direct coupled to Diesel engine.
Set 2.	110 KW	500 V	45 cycle generator direct coupled to Diesel engine.
Set 3.	220 KVA	230/133 V	45 cycle generator direct coupled to Diesel engine.
Set 4.	2 KW	110 V	AC generator.

Sets 1 and 2 are on site. Set 1 has been cleaned and re-assembled and is ready for installation when the necessary alterations to the L.C.T. are made. Set 3 has been cleaned and will be re-assembled on site and the

3. A brief report of the situation as it exists at present is given herewith :-

L.C.F. No 606 is being fitted at CASTELLAMARE dockyard. The work is being carried out by R.N. V/Capt LOWELL of this HQ is on site supervising the assembly of all plant and its preparation for installing in the L.C.F. This Officer is at your disposal for this work and may be retained to complete the work he has started. As arranged with you, 110 Army Troops Coy is supplying MOOs at CASTELLAMARE and NAPLES working under S/Capt LOWELL.

4. Preparation of L.C.F.

Drawings, prints of which are enclosed, have been prepared for the modification of the deck and fitting each generating set, transformers and other electrical gear.

5. Generators to be installed.

- | | |
|--------|---|
| Set 1. | 260 KW 500 V 45 cycle generator direct coupled to Diesel engine. |
| Set 2. | 110 KW 500 V 45 cycle generator direct coupled to Diesel engine. |
| Set 3. | 220 KVA 230/133 V 45 cycle generator direct coupled to Diesel engine. |
| Set 4. | 2 KW 110 V AC generator. |

Sets 1 and 2 are on site. Set 1 has been cleaned and re-assembled and is ready for installation when the necessary alterations to the L.C.F. are complete. Set 2 is being cleaned and will be re-assembled on site and the necessary preparations for installation effected.

Set 3 is situated at Pier B NAPLES docks, and is in course of being dismantled, and will be transferred to CASTELLAMARE dockyard, where any modifications necessary will be made. An MOO of 110 Army Troops Coy is on site at NAPLES carrying out instructions given by S/Capt LOWELL.

Set 4 is at CASTELLAMARE and comprises a small Diesel driven generator, which will be fitted to supply lighting for the L.C.F. Coupled to this engine is a centrifugal pump which will be arranged as a bilge pump or to circulate cooling water to any generating set when required.

6. Electrical Gear to be installed.

- | | |
|----|--|
| A. | 1 - 500 KW 9,000/500 V 45 frequency transformer. |
| B. | 1 - 500 KW 9,000/220 V " " |
- Electrical panels complete with all instruments for sets 1 & 2.
Control panel complete for set 3.
Panel A is being delivered to site from GIOVANAZZO.
" B will be delivered to site with set 3.
All transformers are in good order and arrangements are in hand for their conveyance to CASTELLAMARE.

Continued / Sheet 2.....

7. General

Prints showing the following are enclosed herewith :-

- (i) Alteration to L.C.F.
 - (ii) Position of sets 1, 2, 3 & 4, and transformer & IT rooms.
 - (iii) Electrical lay-out of sets 1, 2 & 3.
- When the power unit is in operation, sets 1 & 2 will be arranged to run in parallel and H/T power transmitted via the transformer to the pylons and thence to shore. The high speed set No 3 cannot be run in parallel with 1 & 2 on the IT side, and it is not proposed to complete the arrangements for it to be paralleled on the H/T side. However, to enable this to be done at destination, the requisite switch gear should be provided as far as possible.

8. Fuel

Fuel for all machines, amounting to approximately 60 tons, will be carried in the side tanks of the L.C.F.

9. Accommodation for the Officer i/c and crew, will be made by the R.N. All principal matters have been dealt with, and a complete understanding between this HQ and the R.N. exists. The R.N. is providing most of the labour and the greater part of the materials for the work. It has been agreed that materials used, will be returned to R.N. in kind from RE sources, and it would be appreciated if you will arrange for this to be done.

RTM/SE.

Encl

Brigadier,
D. D. W.

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TO: Col. Growden (Odr. Flamb.)

RE HQ AAI REQUEST YOU BE
INCLUDED ON DISTRIBUTION OF

Freedom SIGNAL HQ W/HS61/3205

FOLIO NO 07/141

ACTION
COPY (14) HEREBY ATTACHED

DATE 11/3/47

TEL EXT 10

William L. Hunt

JOINT OFFICE
STATE MESSAGE CONTROL

ACTION

SECRET

IMPORTANT
US CIPHER MESSAGE
JN

FOLIO NO: 07111
11 MAR 44

FROM: FREEDOM SIGNED DEVERS
TO: AGWAR FOR SOMERVILL
INFO: CG SOS NATOUSSA AND PEBARK AND AOMF
ATTEN COL. GROWDCH.
ORIG. NO: W/4861/65005 CITE NARNG AND NAGES

TOO 1151A/11
TOR 1731A

ELECTRIC POWER EQUIPMENT IS SUBJECT.
REFERENCE YOUR CABLE AFHQ 67092511. SPOPP DATED 25 FEBRUARY.
FOR JOINT BENEFIT OF MILITARY AND CIVIL THE OPERATION OF LOCAL
SEWERAGE AND WATER SYSTEMS, REFRIGERATION PLANTS, SIMILAR UTILITIES
AND HOSPITALS IS ESSENTIAL. IF UTILITIES NOT OPERATED EPIDEMICS OF
DISEASE POTENTIAL TO(?) MILITARY ARE LIKELY TO OCCUR, PARTICULARLY
IN LARGE CITIES. OPERATION FOR SOLE BENEFIT OF MILITARY FORCES OF
BUNKER MILLS, LAUNDRIES, OXYGEN, HYDROGEN, ACETYLENE PLANTS, BAKERIES
AND MACHINE SHOPS WITH MINIMUM DELAY IS HIGHLY DESIRABLE. IN NAPLES,
IMPORT OF ENGINEER MATERIALS ALONE REDUCED BY 30,000 TONS THROUGH USE
OF LOCAL PRODUCTION. OTHER LARGE CITIES TO BE OCCUPIED EXPECTED TO
YIELD COMPARABLE SAVINGS.
VA OPERATIONAL CRAFT WILL BE DIVERTED FOR MOUNTING OF THIS EQUIPMENT.
NON-OPERATIONAL CRAFT IN NAPLES AREA HAVE BEEN ALLOCATED BY BRITISH
NAVY.
EQUIPMENT LISTED ON 7-4-960 IS URGENTLY NEEDED IN ADDITION TO 20,000 KW
GENERATOR RANGE. IT IS NOT REPEAT NOT A DUPLICATION OF GENERATING
EQUIPMENT IN 1944. PRODUCTS 8-4 AND 9-10 WHICH IS FOR TROOP AND PORT
RECONSTRUCTION UNITS AND NOT SATISFACTORY FOR PURPOSES FOR WHICH THE
6,000 KW AND 30,000 KW UNITS ARE TO BE PUT.
IT IS THOROUGHLY UNDERSTOOD THAT 30,000 KW FLOATING UNIT WILL NOT REPEAT
NOT OPERATE ON 1.2 OR 1.5 CYCLES. THIS FLOATING UNIT IS REQUIRED FOR
USE IN PORTS TO BE OCCUPIED IN FUTURE OPERATIONS AND USE FOR SOME AREA
IS NOT REPEAT NOT ANTICIPATED. VIABILITY OF THIS FLOATING UNIT TO
OPERATE ON 1.2 OR 1.5 CYCLES WILL NOT REPEAT NOT SERIOUSLY RESTRICT
ANTICIPATED USE OF UNIT. IMPORTANCE OF ROAD POLITICALLY AND OTHERWISE
REQUIRES ACTIVE MEASURES TO AFFECT REHABILITATION. OUR CABLE W-3800/57306
TO AGWAR DETAILS PLANS TO EXTEND EXISTING POWER SYSTEM OF SOUTHERN ITALY
FORWARD TO ROME. THIS WILL TAKE TIME TO ACCOMPLISH. PORTABLE
EQUIPMENT CALLED FOR ON 7-4-960 IS MOST DESIRABLE AS INITIAL POWER SOURCE
UNTIL THE MINIMUM REHABILITATION OF POWER SYSTEM CAN BE ACCOMPLISHED.
THIS PORTABLE EQUIPMENT SHOULD THEN BE AVAILABLE FOR USE ELSEWHERE AS
ADVANCED PROGRESSES

COL GROWDCH (DDY PLANO) 4 ACTION
RE 3

ENC 1950A/1
P.T. 20106/405AH

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ENGINEER SERVICE (Col. Burns, Engr. Off.) Mar. 5, 1944

SECRET

10286

PRIORITY

SCS, NATOUA (Action) FLAMBO (Information)

Edited literal

PBS-10/39 Based on experience in Naples electric power will be required, as advance continues, for operation of local water and sewage systems, refrigeration plants and similar utilities required for joint benefit of military forces and civilians. If such utilities are not placed in operation, particularly in large cities, disease epidemics might occur to the detriment of the military effort. In addition it will be desirable to place bakeries, laundries, oxygen acetylene plants, machine shops, lumber mills and similar civilian installations in operation with the least possible delay for the sole benefit of the military forces. Reference your radio L-2740 cite SEENG-26 dated 29 February 1944. In Naples local production has relieved critical material shortages and made it unnecessary to import some 30,000 tons of Engineer materials alone. It is expected that as the enemy retreats he will thoroughly destroy electric power generating facilities. To insure supply of power for the purposes outlined above it will be necessary that portable generating units as described in Penbase cable 2945 dated 20 December 1943 be available. Small generating units normally in the hands of military units would not be satisfactory. ACMF concurs in the necessity for 6,000 KW of portable diesel electric power plant capacity. British Navy has allocated non-operational craft from Naples area and diversion of operationally available craft is not planned.

New Subject: Penbase plans for electric power in its area do not include the use of the Jacona or the 30,000 KW floating power plant. Complete

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analysis showed use of large floating power plant not practical or desirable in Italy. Therefore no further consideration given to use of this type generating plant by Penbase and file closed upon receipt your cable L-4472 Cite SENG-3617 stating floating power plant not available. Total Penbase requirements for additional generating capacity are the 6,000 KW portable diesel electric power plants described in foregoing paragraph. ACMF advises that 50 cycle limitation will not seriously restrict anticipated use of plant by them.

(Answers L-2740, PRS AG #16917)

C O P Y

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HEADQUARTERS PENINSULAR BASE SECTION

1 MARCH 1944

SECRET

PRIORITY

TO (ACTION) : CG PBS
 (INFORMATION : CG NATOUSA
 FROM : SIGNED LARKIN
 DATE TIME SIGNED : 291906A
 DATE TIME REC'D : 010608A
 REF. NR. : L-2740
 CITE : SENG-26

SECRET

SECRET

ELECTRIC POWER EQUIPMENT IS SUBJECT AND REFERS TO PENBASE CABLES 2945 OF 20 DECEMBER, 3512 OF 27 DECEMBER, 4823 OF 11 JANUARY, YOUR 959 OF 12 JANUARY. AGWAR DESIRES MORE DETAILED JUSTIFICATION IN VIEW OF STATEMENT THAT EQUIPMENT IS FOR ESSENTIAL INDUSTRIES AND CIVILIAN NEEDS AS WELL AS MILITARY. SUBMISSION OF JUSTIFICATION TO THIS HEADQUARTERS DESIRED. AGWAR DESIRES TO KNOW SOURCE OF 3 LCT'S OR COMPARABLE HULLS AND WHETHER DIVERSION OF OPERATIONALLY AVAILABLE CRAFT IS PLANNED. ADVICE REQUESTED CONCERNING.

REFER ALSO TO PENBASE CABLE 556 OF 11 NOVEMBER AND NATOUSA CABLE INFORMATION PENBASE 50031 OF 12 FEBRUARY. AGWAR ADVISES THAT THIS PLANT WILL NOT OPERATE AT 42 OR 45 CYCLES. DOES THIS LIMITATION MAKE EQUIPMENT UNDESIRABLE?

SUGGEST YOU COORDINATE YOUR REPLY WITH HEADQUARTERS ACMF.

 ACTION: ENGR.

INFO. : G-4
 C.G.
 SECY

402

SECRET

- 16917 -

C O P Y

SUBJECT:- Generating Sets

To:- Vice Chairman
Central Electrical Board

Directorate of Works
HQ ACMF (Adm Ech.).

2103/DDW

2 Mar 44

The attached copy letter, No.T.A. 322/5 dated 25 Feb 44,
received from Flag Officer, TARANTO, is forwarded for
information.

WARS/lam.

Enclos.

W.A.R. Smith
W.A.R. SMITH
Lt. Col. R.E.
for Brigadier
D.D.W.

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GENERATING SETS

FROM: FLAG OFFICER TARANTO AND ADRIATIC

DATE: 25th February 1944 No. T.A. 322/5

TO: ALLIED FORCE HEADQUARTERS
ADVANCED ADMINISTRATIVE ECHELON C.M.F.

With reference to your No.42/19/Q3 dated 13th February 44, the Generating Sets in Taranto Dockyard are used for supplying power to the Dockyards, an essential service, during frequent failures of the Grid System. In addition they supply power for lighting purposes to Navy House and other Allied establishments.

2. I regret therefore that I cannot agree to their release.

???????????

REAR - ADMIRAL

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HQ ACMF (Adm. Echelon)
APO 400

ALH/rjs
29 February 1944

MEMORANDUM:

TO : Vice Chairman, ACMF, Central Electrical Board.

Reference the attached draft. No necessity is seen for issuing a directive to a member of the staff of this headquarters in matters pertaining to the normal activities of the headquarters. Such matters can be taken care of by personal contact and staff meetings. In cases where misunderstandings may occur minutes should be taken to produce clarity.

It is noted that the use of LCTs is contemplated. No LCTs are now available or likely to become available for an indefinite period. As long as supplies are required to be unloaded over beaches all LCTs are required for that purpose. It is possible that when the land L of C from Naples is opened to the Anzio area that some minimum number of LCTs may be relinquished but this even is uncertain. Other means to produce power in Rome should therefore be sought.


A. L. HAMELEN
Brigadier General, U.S.A.
DCAO

A.C.M.F.
CENTRAL ELECTRICAL BOARD

26 February 1944

SUBJECT: Improvised Floating Power Plant for Rome.

TO : D/C.A.O. - A.C.M.F.

1. The A.C.M.F. - C.E.B. at its meeting on 13 February 1944 allotted to the Deputy Director of Works - A.C.M.F. the work of assembling testing and mounting on L.C.T.'s the suitable diesel - electric generating sets which have been found in Allied Italy.

2. It is requested that the attached directive be issued.

James P. Groudon
JAMES P. GROUDON
Colonel C.E.
Vice Chairman A.C.M.F. - C.E.B.

HQ ACMF (Adm. Echelon)
APO 400

HQ ACMF (Adm. Echelon)
Administrative Directive No. _____

26 February 1944

TO: Deputy Director of Works.

1. You will proceed at once to assemble all suitable diesel-electric generating sets (not more than 2000 kw total capacity) which have been found in Allied Italy; test said sets to assure their satisfactory operation; secure from the F. O. Western Italy suitable L.C.T.s and mount the diesel-electric sets thereon.
2. The diesel-electric sets should be provided with transformers of suitable size for raising the generated voltage to a nominal 9 kv and all necessary switch gear, instruments, control devices and flexible cables so that the sets on an L.C.T. can be operated as a unit and the power put on a primary distribution circuit. Suitable housing will be provided to protect the equipment from the weather. Each L.C.T. will be provided with oil storage sufficient for not less than six hours operation of the units installed thereon.
3. It is contemplated that the L.C.T.s with the diesel-electric sets installed thereon will be towed from Naples to the mouth of the Tiber River and up the Tiber River to Rome where they will be berthed at sites close to distribution circuits. If required the L.C.T.s will be reinforced to take the concentrated loads imposed by the diesel-electric sets and to withstand the vibration which will occur during operation.
4. Operating crews will be assembled and trained. They will accompany the L.C.T.s to Rome and operate the sets upon arrival. Continuous service will be required.
5. The L.C.T.s with diesel-electric sets ready for service will be ready to leave Naples within 24 hours after the occupation of Rome by Allied Forces. You will make the necessary arrangements for movement from Naples to Rome.

MAJOR GENERAL
Chief Administrative Officer

U178

POWER & LIGHT NEWS

VOLUME XI

NUMBER 5

PUBLISHED BY AND FOR EMPLOYEES OF THE KANSAS CITY POWER & LIGHT COMPANY

KANSAS CITY, MISSOURI, FRIDAY, FEBRUARY 4, 1944

A-ROVING THEY WILL GO

Power plants that get around on railway cars have been built by General Electric for the Navy's Bureau of Yards and Docks.

Each plant consists of a three-car unit comprising a complete 10,000-kw steam-electric generating station and can supply power quickly for any of the Bureau's many projects. Engineers estimate that these power plants can be "put on the line" within 24 hours after they are shunted onto a siding.

Although the units in themselves are unique, the apparatus involved is of the same type used in regular central station and industrial power plants installations throughout the country. The boilers are fired by fuel oil, and the unit carries enough for two hours' operation, so that the power can be generated before tank cars are hauled up and connected.

HEADQUARTERS
ALLIED CONTROL COMMISSION
APO 394

11 February 1944

SUBJECT: Removal of Belt Driven Generating Equipment
from Giovinazzi Steel Plant

TO : Lieutenant Colonel W.A.R. Smith

1. It is understood that the removal is contemplated of two belt driven Diesel generating units from the Scianatico Steel mill at Giovinazzo, near Bari.

2. The following information has been determined concerning each of these units:

<u>Engine hp</u>	<u>Generator KW</u>	<u>Weight of engine only kg</u>	<u>Dimension of engine length x width x height</u>
265	188	65,000	15'- 4" x 13'- 8" x 21'- 6"
50	32	25,000	13'- 6" x 10'- 2" x 14'- 10"

3. In consideration of (a) the weight and physical dimensions of the equipment involved, and (b) the space required for the belt drives, it is recommended that the two units referred to in the foregoing not be removed at this time, for use as Rome electric power sources.

JAMES P. GROWDON
Colonel C.E.
Chief, Electric Power Mission.

*Total 6 units
transmitted to
Col Smith
VSR*

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HEAD QUARTERS
ALLIED MILITARY GOVERNMENT
APO 394

10 February 1944

SUBJECT: Visit of Major V.S. Renton to Bari
TO : Colonel Crowdon

1. In accordance with your instructions, the writer left Naples on 31 January to obtain foundation dimensions of two Diesel generating units which are in the Scianatico A.F.P. plant, a steel mill at Giovinazzo, near Bari.

2. A chronology of the visit follows:

31 January - Left Naples by plane in company with Captain Frank A. Lovell, R.E., who had received instructions to dismantle the two machines which I had been instructed to inspect and also two other machines, in the same plant. The latter two machines are belt driven. We arrived in Bari about 1700 and were met by an officer from Major Lawrence's office.

1 February - Captain Lovell arranged for transportation to the Giovinazzo plant, and we reached it about 1100. It is about 10 miles north of Bari. It is working, and obtains its power from the local electric system. The engineer in charge of the plant had some pertinent drawings at his house in Molefatta and we went there with him, several miles further from Bari. By the time the drawings were borrowed, the day was spent. Below is the pertinent information concerning each engine. All operate at 500 volts and 50 cycles.

<u>Capacity of Engine HP</u>	<u>Capacity of Generator KVA</u>	<u>Weight kg</u>	<u>Number cylinders</u>
265 (Belt Drive)	235	65,000 (engine only)	2
150 (Direct Connected)	130	50,000	3
375 (Directed Connected)	350	130,000	4
100 (Belt drive)	50	25,000 (engine only)	2

2 February - Visited Bari steel mill of same company with Captain Lovell. Saw steam power plant of 1,500 kw capacity consisting of one 700 and one 800 Brown Boveri turbine generator unit - 3 Babcock

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boilers, and two jet condensers. The steam pressure was 175 pounds; English coal had formerly been burned under the boilers. The plant is only several years old and is in good shape. In the afternoon we visited the Giovinazzi plant, and measurements were taken of the 150 hp unit. Also, disassembly of this unit was begun, under Captain Lovell's supervision. A corporal of the Royal Engineers, who has had diesel operating experience in civilian life, was placed in charge of a gang of plant employees, doing the disassembly. The plant power engineer who installed the machinery years ago was very cooperative in this work.

3 February - Checked foundations of 375 hp unit against drawing which had been furnished, and found differences. Took necessary measurements, and corrected drawing.

4 February - Verified several measurements on 375 hp unit and then went to San Vito with Captain Lovell, where we looked at five diesel generating sets stored at No. 9 E.S.D. They have been weather^x exposed for a considerable period.

5 February - Lieut. Colonel Millar, of Brigadier B.E.C. Dixon's office stated that immediate action would be taken to place the diesels in operating condition. We went to Giovinazzi plant where I arranged in ~~in~~ fashion the information, somewhat orderly, previously obtained at the plant. Also I made sketches of the air bottle arrangement used to start the 150 hp unit, the switch boards being removed for each unit, and the foundation plans of the two belt driven units.

6 and 7 February - Awaited air transportation to Naples. Held up because of weather.

8 February - Reached Naples about 1100. Captain Lovell remained in Bari supervising disassembly of diesels at Giovinazzi.

COMMENTS

I believe that removal of the two belt driven units at Giovinazzi should not be encouraged. They are both very bulky for their effective output, and because of the belt drive, require a great deal of room.

VSR
VINAL S. RENTON
Major Infantry.

HEADQUARTERS
ALLIED MILITARY GOVERNMENT
APO 394

779

10 February 1944

SUBJECT: Visit with Commander Hoggin, 10 February
TO : Colonel Crowdon

1. I saw Commander Hoggin today relative to the installation of the diesel generating units. He told me that the question of whether they can be installed is now under study by the Naval Constructor at Castellammare, that he has arranged for the work to be expedited if feasible, and that he will inform you of the practicability of the job as soon as possible.
2. In the event that it has not been done, I again recommend that it be suggested to Flambo that the 63 kw diesel units at San Vito be readied as soon as possible, and that they be made available for our purposes.
3. In connection with the repairs being made to the turbine condenser at Capusno, the water box head was cast a little deep with the result that the diaphragm between the inlet and outlet sides of the water box does not quite meet the head. Also, the flange faces of the inlet and outlet water box connections were found not to parallel the flanges of the connecting piping. Commander Hoggin now hopes to have the condenser finished by Saturday.

VSR.
VINAL S. REITON
Major Infantry.

HEADQUARTERS
ALLIED MILITARY GOVERNMENT
APO 394

File gkg
9/1

SUBJECT: Use of 63 kw Portable Diesel Sets, Now at San Vito.

TO : Colonel Crowdon.

1. While at Bari, I visited No. 9 E.S.D. a British Royal Engineers establishment at San Vito, near Brindisi, and there inspected five diesel generating sets. None of the units have been used insofar as I could see.

2. Pertinent information relating to the sets follows:

Rating:	63 kw
Voltage:	127/220 volts
Estimated Weight:	7 $\frac{1}{2}$ tons.
Approximate dimensions:	12 Feet long. x 3 Feet wide x 6 Feet high
Speed:	600 rpm.

3. These units have been in open crates, exposed to the weather for an unknown period. The generators were not well covered.

4. There is furnished with each unit a field rheostat. No switch gear or instruments are furnished. Only two air bottles have been located for the five engines. I was told that the fuel pump could not be located on the one engine which was uncrated.

5. Lieutenant Colonel Millar, who is in Brigadier B.E.C. Dixon's office has stated that immediate steps would be taken to put the units in working order. *I told him that such seemed a good idea but I did not tell him that we wanted them.* (Spelled correctly)

6. The total capacity of the units is 315 kw; their total weight is 37 $\frac{1}{2}$ ton, which corresponds to a weight of 238 lb per kilowatt. As a compar-

ison, the 150 hp unit which has been removed from Bari, is capable of generating only 112 kw, and weighs 55 tons, or 984 lb per kw. Also the center of gravity of the units at San Vito is much lower, resulting in greater stability. In this connection, it is to be noted that the stability of the Bari equipment is still to be determined. The San Vito units are also attractive from the viewpoint that each is sufficiently portable so that it can be transported by truck to the point of use if necessary.

7. In view of the foregoing, I strongly recommend that these units be utilized for our purpose. In order that this may be accomplished it is further recommended that a request be made to Lt. Col. Millar through Flambo to expedite work on these units, and that as each is placed in oper-

ating condition, it be transported to Naples, for our use.

13R
VINAL S. RENTON
Major Infantry.

HEADQUARTERS
ALLIED MILITARY GOVERNMENT
APO 394

SUBJECT: Visit with Commander Hoggin, 8 February

TO : Colonel Groudon.

1. Drawings of the 150 and 380 horsepower Diesel engines now at the Giovinazzo steel plant, were given Commander Hoggin by the writer on the afternoon of 8 February. He said that they would be submitted to naval specialists who would check the stability of the proposed installation and that we would be informed of the findings.

2. He stated that although he has made arrangements with the dockyard authorities to prepare the hull, and to make the installation, neither Lieut. Commander Slatter, nor himself, are able to supervise the work personally. He pointed out that they are both kept occupied by their present work. He asked that you be told that it is necessary that a full time supervisor be furnished. He is willing, he said, to visit the dockyard occasionally, and to offer any possible advice to the supervisor.

3. I believe that a full-time supervisor is needed to insure that the job is done correctly. In my opinion, Captain Frank A. Lovell, British, who is disassembling the equipment at Giovinazzi has demonstrated his capabilities in working with these machines, and I recommend that he be assigned to supervise their installation.

VR.

VINAL S. REINTON
Major Infantry.

JRG

COLONEL CROWDON:

1. The British Lieutenant Commander who is with is with Commander Hoggan was in today at 1015. He said-

a. That the Diesel in the Naples Dockyard appears OK for installation. Dimension are 15'-4" Long x 4'-6" wide x 6'-0" high. It's 230 volt, 220 KVA 3.8PF. It's 45 cycles at 900 rpm. It is complete with switchgear. He also said that the engine is presently being used by a Dock Salvage Company which he believed, a Commodore Sullivan. He anticipated no difficulty in obtaining the engine-said its output is presently being used to pump water, and that another electric source is available for pumping. *is a U.S. Naval Unit under*

b. That he believed a 9000/260 volt transformer for this unit could be obtained in Naples.

c. That it would be necessary to have the detailed dimensions of the Bari diesels prior to installing either the Naples, or Bari equipment, so that the installation would be stable.

d. That in view of the foregoing, he wondered whether you desired to forego installing the Bari equipment so that work might proceed immediately on the Naples unit.

e. That the work will be under the direction of the Naval Constructor Captain who will determine whether units will fit and estimate the time required. The Lt. Commander said that it was planned to recommend that the work be done in Castellammare (En route to Sorrento).

f. That the shipping facilities to handle the 150/60 kv transformers from Bari are being studied but that it will be necessary to have weights and dimensions of the equipment in order that definite transportation arrangements may be made.

VSR.

Flotation Power Plants

- 1# 60 cye - Nevada, Pa - in Operation.
- 2 - Uncompleted - 60 cye - Probably operating -
- #3 - Steam unit taken for Manhattan Dist.
 Turbine due for completion - April or May 44.
 Other equipment all completed.
 May be changed to operate at 42-43 or 50
 cycles.
- #4 - Modified to operate at 50 cye.
 Scheduled for completion March 15-44.
 With hull modified for sea transport.
- Locoma - 2-10000 KW - 60 cye steam units.
 No modification for operation at 50 cye.
 This is a installed in merchant ship hull.
 Replaced by 30 mile transmission line
 from Mass system.

SECRET

HEADQUARTERS PENINSULAR BASE SECTION

11 FEBRUARY 1944

SECRET

ROUTINE

ACTION COPY

TO (ACTION)

: CG SOS NATOUSSA

(INFORMATION)

: CG PBS, HEADQUARTERS AGMT

12 FEB

FROM

: SIGNED CG NATOUSSA

DATE TIME SIGNED

: 102019A

DATE TIME REC'D

: 110535A

2 PM

REF NR

: 50031

SITE

: MAENG, NAGDS

FOR INFORMATION IS PARAPHRASE OF CABLE 9141 DATED 7 FEBRUARY 1944 FROM AGMAR REFERENCE FREEDOM CABLE W1545/45499 SUBJECT FLOATING POWER PLANT. POWERGEN PLANT AND CREW WILL BE READY TO DEPART FOR THEATER BY LATE MAY. NECESSARY CREW, T/O 5-500 CHANGE 5 COLUMN RE 4 OFFICERS AND 57 ENLISTED MEN BEING ACTIVATED AND ASSIGNED YOUR THEATER. POWER PLANT WILL BE SHIPPED MANNED BY CREW. CHARACTERISTICS OF PLANT: 26000 KVA AT 50 CYCLES; 30000 KVA AT 60 CYCLES; IMPOSSIBLE OPERATE AT 42 AND 45 CYCLES WITHOUT REBUILDING EQUIPMENT; FUEL BUNKER C OR BETTER GRADE; CONSUMPTION 100 BARRELS PER HOUR AT RATED CAPACITY.

INFO. - EN R.
G-A
TRANS.
C.G.
SECY.

ACC This

(Action) Gen Secy (4)

ACTION COPY

386

SECRET

12 Feb
33

SECRET

FARGO 895

FARGO

11 FEB 44

SECRET

10050 MR GRADY

PRIORITY

FREEDOM

ENDING MESSAGE FOR INFORMATION OF AGWAR PD PIRBASE PAREN FARGO
 FOR MR GRADY PAREN TO AFHQ FOR AGS PD CITE FARGO EIGHT NINE FIVE PD EQUIPMENT DESCRIBED
 IN REFERENCE CABLE PIS TWO NINE ZERO TWO OF TWO ONE DECEMBER ONE NINE FOUR THREE WAS
 ORDERED BY PIS FOR MILITARY USE WHICH INCLUDES A MINIMUM OF CIVILIAN REQUIREMENTS SUCH
 AS PUMPING WATER PD IT IS NOT FOR AND USE

385

L. F. RICKEL
 Lt. Col., AGO
 Adjutant General

SECRET

SECRET

R FARGO 891

FARGO(Mr. Grady, V.P.)

11 FEB 44

SECRET

10050 Mr. Grady

PRIORITY

AFHQ FOR MCS

_____ Ensuing message intended for AGWAR for Somervell for Wright.

Reference MB 98923 of 4 February. Your telegram refers to Military matters which I am not in a position to answer authoritatively. A central Electrical Board has been set up to handle electrical matters. Your telegram has been referred to the Board who will reply fully and promptly.

384

SECRET

SECRET

FARGO 891

R

FARGO

11 FEB 44

SECRET

10050 Mr. Grady

PRIORITY

FREEDOM

U.S.A.
for
 ENBUING MESSAGE INTENDED FOR AGWAR ~~2~~ SOMERVELL FOR WRIGHT PD
 PENBANE PAREN FARGO FOR GRADY PAREN TO AFHQ FOR MGS PD CITE FARGO EIGHT NINE ONE PD
 REFERENCE MIKE SUGAR NINE EIGHT NINE TWO THREE OF FOUR FEBRUARY PD YOUR TELEGRAMS REFERS
 TO MILITARY MATTERS WHICH I AM NOT IN A POSITION TO ANSWER AUTHORITYTIVELY PD A CENTRAL
 ELECTRICAL BOARD HAS BEEN SET UP TO HANDLE ELECTRICAL MATTERS PD YOUR TELEGRAM HAS
 BEEN REFERRED TO THE BOARD WHO WILL REPLY FULLY AND PROMPTLY

L.F. NICKEL,
 Lt. Colonel AGO.
 Adjutant General.

SECRET

SECRET

Encl

PARGO (MR GRADY V.P.)

11 FEB 44

SECRET

10050 MR GRADY

PRIORITY

AHQ FOR MCS

Ensuing message for information of AGWAR. Equipment described in reference cable PBS 2902 of 21 December 1943 was ordered by PBS for military use which includes a minimum of civilian requirements such as pumping water. It is not for AGO use

L. F. NICKEL
Lt. 323 AGO
Adjutant General

SECRET

062016A
Form 125D

N-914

RAD

2623

SECRET

Signal Corps, United States Army

Telegram

ECON. SEC.
PRIORITY

GPO 3-10175

Received at

PENINSULAR BASE SECTION
SIGNAL MESSAGE CENTER

7 FEBRUARY 1944 19

SECRET

PRIORITY

TO (ACTION)

CG PBS FOR FARGO FOR GRADY

(INFORMATION):

NONE

FROM

SIGNED CINC

DATE TIME SIGNED:

061435A

DATE TIME REC'D.:

062016A

REFERENCE NR.:

48158

CITE

FHMGS, FHENG



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

Action AMG 1/2
Info MGS ADV
See
CB
Acc. Ilian
(Action) Gen Sec (4)

ACTION COPY
SECRET

382

FORM #18-A

CRYPTO

Shawatt

7725

12977

062016A

N-914 **SECRET** RAD
SECRET PRIORITY TELEGRAM

2623

RECEIVED AT
PBS SIGNAL MESSAGE CENTER

7 FEBRUARY 1944

SECRET**ACTION COPY**

PRIORITY

CG PBS FOR FARGO FOR GRADY

NONE

SIGNED CINC

061435A

062016A

48158

FMGS, FHENG



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

PBS DISTR:

ACTION AMG HQS
INFO MGS ADV
SEC
CG

ACC DISTR:

(ACTION) ECON SEC (4)

ACTION COPY**SECRET**

381

77031

C O P YC O P Y

HEADQUARTERS PENINSULAR BASE SECTION

26 JANUARY 1944

CONFIDENTIAL

PRIORITY

TO (ACTION) : CG SOS NATOUSA

(INFORMATION) : CG PBS, GCMF

FROM : SIGNED NAGG

DATE TIME SIGNED : 261111A

DATE TIME REC'D : 261711A

REF. NR. : 43140

CITE : NAENG, NAGDS

CONFIDENTIAL

INTRODUCTION OF FLOATING POWER PLANTS INTO THEATER IS SUBJECT.

REFERENCE CABLES PBS 2902, L-7291 AND 752. HAVE THEATER REQUIREMENTS BEEN COORDINATED BETWEEN AMG AND SOS? REFERENCE IS MADE TO LARGE UNIT THE JOCONA. SOS HAS ALSO RECOMMENDED THAT REQUEST BE MADE FOR LARGE FLOATING UNIT OF ABOUT 30,000 KW. ARE THESE PLANTS DUPLICATES FOR THE SAME PURPOSE. DESIRE REPORT ON A COORDINATED PLAN.

INFO - ENG
TRANS
AMG HQ
G-4
SECY
CG

380

- 11203 -

378

C O P Y

SECRET

221130A

N - 3308

RAD

1492

SIGNAL CORPS, UNITED STATES ARMY
TELEGRAM

RECEIVED AT

PENINSULAR BASE SECTION
SIGNAL MESSAGE CENTER

22 JANUARY 1944

SECRET

ROUTINE

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

(INFORMATION) : NONE

FROM : SIGNED CINC

DATE TIME SIGNED : 211137A

DATE TIME REC'D : 221130A

REFERENCE NR. : 40817

CITE : FMAGS REFERENCE FA884



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

PBS DISTRIBUTION:INFO: AMG HQ
AGS ADV
SEC
CGAG DISTRIBUTION:ECON DIR (2)
(for electric power
Mission)

Original with
IVLC,
VSh

379

SECRET23 Jan
20

orig 1440/5A

Signal Corps, United States Army

Telegram

SECRET

PRIORITY

RAD

1446

21A

8-10005

Received at

PENINSULAR BASE SECTION
SIGNAL MESSAGE CENTER

SECRET

PRIORITY

TO (ACTION) : CG PBS, FARGO FOR CISLER
(INFORMATION) : NONE
FROM : SIGNED CINC
DATE TIME SIGNED: 211102A
DATE TIME REC'D : 211905A
REFERENCE NR. : 47799
CITE : FHMG

21 JANUARY 1944

Action - G-1
Info - Econ Dir
- Exec Off
- ACCAD

Action Arrang
Info Sec

E P M



MESSAGE FROM KRUG RECEIVED ACKNOWLEDGING YOUR MEMORANDA OF 30TH DECEMBER. KRUG SUGGESTS CISLER RETURN TO US SOON AS POSSIBLE AS PLAN TO MEET IN ENGLAND SEEMS IMPROBABLE. KRUG CONVERSATION WITH GENERAL CLAY ON ACQUISITION AND CONVERSION OF FLOATING POWER PLANT FOR DUTY OVERSEAS RESULTED IN CLAY AGREEING LOOK INTO MATTER BUT SAW NO NEED FOR IT AT MOMENT. FORWARDED BY AIR ARE PHOTOGRAPHS SHOWING INTERIORS, CONNECTIONS AT SITE AND DATA BOOK. IS ADDITIONAL MATERIAL NEEDED. REQUESTED IS IDENTIFICATION OF TYPE OF LCT AVAILABLE FOR INSTALLATION DIESEL GENERATORS. END OF MESSAGE. WE ARE CABLING WAR DEPARTMENT YOU ARE PROCEEDING ETOUSA PURSUANT TO CURRENT ORDERS.

Orig. Econ Direct

378

SECRET

10431

CRYPTO

St. J. K. Albano

22 JAN 19

FORM #18-A

Col. Groudon
C O N F I D E N T I A LPENINSULAR BASE SECTION
SIGNAL MESSAGE CENTER

15 JANUARY 1944

CONFIDENTIAL :
 ROUTINE
 TO (ACTION) : CG PBS
 (INFORMATION) : NONE
 FROM : SIGNED LARKIN
 DATE TIME SIGNED : 141628A
 DATE TIME REC'S : 150135A
 REFERENCE NR. : L-7319
 CITE : SSFENG-4109

MAJORITY OF THIS EQUIPMENT CAN BE SUPPLIED REFERENCE PBS CABLE
 4764 CITE BPENG HOWEVER, EVEN CONSIDERING POSSIBLE DIVERSIONS, MINIMUM
 DELIVERY TIME TO YOU WILL BE 3 TO 4 MONTHS. IN VIEW OF THIS DELAY AND
 CONSIDERING OVERALL PLANS DO YOU STILL WANT THIS EQUIPMENT.

377

C O N F I D E N T I A L

JRG

CLEAR MESSAGE IN5192
IMPORTANT

TO : FREEDOM INFO FLAMBO

FROM : ACMF

DCAO

23

FOR CAO FROM GEN ROBERTSON, ANTICIPATED AVAILABLE ELECTRIC POWER NORTH CENTRAL ITALY WILL NOT MEET MILITARY AND MINIMUM CIVILIAN REQUIREMENTS FOR ESSENTIAL SERVICES. UNDERSTAND FROM LT COL WALTER L CISLER ELECTRIC POWER MISSION VISITING THIS THEATRE THAT FLOATING POWER UNIT MIGHT BE MADE AVAILABLE BY ACWAR. SHIP NAMED JACONA CONTAINING 20000 EVA CONSIDERED SUITABLE. REQUEST EARLIEST POSSIBLE DESPATCH. CISLER STATES THAT SETS CAN BE ADJUSTED TO WORK ON 50 CYCLES. UNDERSTAND HE HAS ALREADY SENT REQUEST FOR THIS TO BE ARRANGED THROUGH ACWAR TO WFB

SMC DISTRIBUTION

ACTION
INFMGL
Q
WORKS
MOV
TH(A)WJD
SMCTOR231200

376

PENINSULAR BASE SECTION
SIGNAL MESSAGE CENTER

7 January 1944

SECRET

ROUTINE

EISENHOWER FOR FHMGs, SOS NATOUA

USFOR, (INFORMATION) BRITISH CHIEFS OF STAFF, NYOPE
LT COL WALTER S. CISLER, FBS NAPLES
CCS

051544A

071017A

R566/6 FREEDOM 6432, USFOR ROGER 7702 WXCB 20/75

CCAC

0040 (CAL 107)

2075

ELECTRIC POWER EQUIPMENT. REFERENCE CABLE PBS 2902

OF 21 DECEMBER 1943 SENT AT REQUEST OF LIEUTENANT COLONEL CISLER

AND CABLE L-4960/P-394. 25 DECEMBER 1943 FROM ORAN TO PENBARK.

FLEXIBLE POWER CABLE OF 9,000 VOLTS VERY UNCERTAIN AND SLOW

DELIVERY. CAN SUCH CABLE BE ELIMINATED (~~YES~~) AND 9,000 VOLT POWER

TAKEN OUT WITH OVERHEAD CONDUCTORS? ARE TERMINAL VOLTAGES 127 DELTA-

220 WYE AND ALSO 150 DELTA- 260 WYE REQUIRED FOR EACH INSTALLATION FOR

ALL CYCLES OF 42, 45, AND 50 CYCLES?

/s/ Lt. J.R. Albright 375

ENGINEER SERVICE

SECRET

10286

PRIORITY

SOS NATOUA

Edited Literal

PBS 4959 Walker L. Cisler of War department requests the following message be transmitted to AGWAR FOR WIB FOR KRUG. Increasingly urgent that diesel electric generating equipment be shipped as quickly as possible if anticipated needs are to be met. Desire to stress importance and urge that every^hing be done to hasten delivery. Without lessening the need for the larger units to be mounted on craft, ^{if the portable units can be delivered ahead these will be used on crafts} in interim pending delivery of larger sets. Discussion with responsible officers regarding JACONA indicate that preliminary steps should be taken to make the plant available for overseas operation the same as Floating Plant "C". It is hoped that this could be done quickly and with the least amount of change permit operation at 42, 45 and 50 cycles. Time element is so important in these matters that expedient measures are justified.

PENINSULAR BASE SECTION
SIGNAL MESSAGE CENTER

31 Dec. 1943

CONFIDENTIAL

ROUTINE

TO (ACTION)

: CG FBS ^{for} CISLER

(INFORMATION)

: NONE

FROM

: FROM KRUG FROM STRONG SIGNED ULIO

DATE TIME SIGNED

: 292209Z

DATE TIME REC'D

: 310200K

REFERENCE NR.

: NONE

CITE

: WDGB I

INVITED ATTENTION OUR 4659 DECEMBER IITO NATO DIRECTED BY NAVY CONCURRED
IN BY WAR DEPARTMENT RE STRICT LIMITATIONS USE LCT OPERATIONAL USE ONLY, CON-
NECTION YOUR PBS 290 2 DECEMBER 21 ADDRESSED TO KRUG WAR PRODUCTION BOARD.
SOME OTHER SORT PROPELLED BARGE MUST BE USED ^{AND} NAD YOUR REQUISITION CHANGED
ACCORDINGLY.

J.R. BREMER CLERK

373

HEADQUARTERS PENINSULAR BASE SECTION

28 DECEMBER 1943

SECRET

ROUTINE

TO (ACTION) : CG IBS (FOR LT. COL. WALKER CISLER)

(INFORMATION) : NONE

FROM : THROUGH WILSON FROM BRIGADIER GENERAL MINTON SPUPE
SENT FOR J KRUGH FROM SOMERVELL

DATE TIME SIGNED : 280315A

DATE TIME REC'D : 282303A

REF. NR. : 5788

CIET : NONE

YOU ARE ADVISED IN REPLY TO YOUR MESSAGE PBS 2902 DATED 21 DECEMBER 1943 THAT AVAILABILITY OF EQUIPMENT FOR DIVERSION AND TIME REQUIRED FOR SHF-MEET IS BEING CHECKED. WILL FURNISH MORE INFORMATION IN A WEEK. ADVISE PROBILITY OF REQUIRING POWER PLANT JACONA IN YOUR THEATER. IF NEED IS LIKELY TO DEVELOP, WE WOULD LIKE TO KNOW IN ORDER TO INCREASE CAPACITY IN AREA NOW SERVED BY JACONA.

ACTION : ENG (LT COL WALKER CISLER)

INFO : G-4
: TRANS
: C.G.
: SECY.

372

S E C R E TPENINSULAR BASE SECTION
SIGNAL MESSAGE CENTER*25 December 1948*

SECRET

PRIORITY

TO (ACTION) : CG PBS

(INFORMATION) : NONE

FROM : SIGNED LARKIN

DATE TIME SIGNED : 251122A

DATE TIME REC'D : 252130A

REFERENCE NO. : L-4883

CITE : SSOPN-598-R

DIESEL ELECTRIC PLANTS ~~3~~ EACH ~~1000~~^{KW} GENERATORS TO BE EQUIPPED TO OPERATE AT 42-45-50 CYCLES WITH INITIAL OPERATION AT 45 CYCLES CITE YOUR/PENG NUMBER PBS-2945 DATED 20 DECEMBER. THE FREQUENCY OF AN ALTERNATING CURRENT GENERATOR IS DETERMINED AT THE TIME OF MANUFACTURE BASED ON THE DESIGN AND THE SPEED OF ROTATION AND THE NUMBER OF POLES. TO MAKE A CHANGE IN FREQUENCY IN THE FIELD ON AN ALTERNATING CURRENT GENERATOR IS A DIFFICULT AND COMPLICATED PROCEDURE. IT WOULD REQUIRE THE SYNCHRONIZING OF EITHER AN INDUCTION-SYNCHRONOUS TYPE OR SYNCHRONOUS-SYNCHRONOUS TYPE FREQUENCY CHANGER.

WOULD IT BE POSSIBLE FOR YOU TO USE A GENERATOR OF SOME STANDARD FREQUENCY, SUCH AS 25.50 OR 60 CYCLE? THIS CONDITION WOULD ALSO APPLY TO YOUR 2ND REQUEST (SAME CABLE) FOR 3000 KW OF PORTABLE OR MOBILE DIESEL ENGINE GENERATORS. REQUEST EARLY REPLY BY CABLE FOR GENERATORS OF THIS SIZE ARE CRITICAL ITEMS AND MUST BE REQUISITIONED FROM THE ZONE OF INTERIOR, CONSIDERABLY IN ADVANCE OF CONTEMPLATED USE. ADDITIONAL INFORMATION WILL FOLLOW WHEN AVAILABLE, REFERENCE TO PERSONNEL, TRANSPORTATION AND TRUCKS.

S E C R E T
- 6482 -

371

HEADQUARTERS PENINSULAR BASE SECTION

December
25 DECEMBER 1943

PRIORITY

SECRET

TO (ACTION) : AGWAR FOR WFB FOR KRUG
 (INFORMATION) : CG HBS AND CG SOS NATOUSA
 FROM : SIGNED EISENHOWER
 DATE TIME SIGNED : 242359A
 DATE TIME REC'D : 251616A
 REF NR : W 8504/18968
 CITE : NAENG AND NAGDS

DIVERSION AND SHIMENT IMMEDIATELY OF POWER FACILITIES WHICH IS BEING REQUI-
 SITIONED THROUGH NORMAL CHANNELS NECESSITATED BY ANTICIPATED URGENT NEEDS FOR
 EMERGENCY SERVICE. FOLLOWING EQUIPMENT REQUIRED: ITEM 1 FOR INSTALLATION ON
^{LCT}
 3 LCT. DIESEL ENGINE GENERATOR SETS AND COMPLETE AUXILIARY EQUIPMENT.

^{LCT}
 LCT AVAILABLE LOCALLY AND EQUIPMENT CAN BE INSTALLED LOCALLY. EACH LCT TO
 BE EQUIPPED TO PROVIDE APPROXIMATELY 1000 KW TOTAL WITH 1 OR 2 SETS PREFERE-
 RABLY AND NOT MORE THAN 3 SETS. SHIP ASSEMBLED TO GREATEST EXTENT POSSIBLE AND
 STILL PERMIT UNLOADING DIRECTLY FROM SHIP TO ^{LCT} LCT USING SHIP FACILITIES.
 FOUNDATION BASE TO BE SUITABLE FOR ^{Placing on LCT Deck.} SHIPPED TOGETHER IN 3 SEPARATE SHIPS. PLANTS
 TO BE EQUIPPED FOR OPERATION AT 42, 45 OR 50 CYCLES. TO OPERATE INITIALLY AT
 45 CYCLES. TRANSFORMERS TO PROVIDE 9000 VOLTS PLUS OR MINUS 5% AT EACH FREQUENCY,
 SWITCHING EQUIPMENT AND 300 FEET LENGTHS OF FLEXIBLE POWER CABLES TO BE
 FURNISHED FOR CONNECTION TO PRIMARY DISTRIBUTION LINES. ITEM 2.

DIESEL ENGINE GENERATOR SETS IN SIZE 200 KW TO 400 KW, MOBILE OR PORTABLE.

PAGE 1.

To be equipped with all equipment

COMPLETE, TOTALING ³⁰⁰⁰3000KW INITIAL FREQUENCY 45CYCLES, ADJUSTABLE TO 42 AND 50 CYCLES AND EQUIPPED FOR PARALLEL OPERATION. SWITCHING EQUIPMENT TRANSFORMERS AND 300 FEET LENGTHS OF FLEXIBLE CABLE FOR CONNECTION TO 127 220 VOLT AND 150-260 VOLT SECONDARY DISTRIBUTION LINES TO BE FURNISHED. TRANSPORTATION CONDITIONS REQUIRE THAT AS LIGHT WEIGHT EQUIPMENT AS POSSIBLE BE FURNISHED. ITEM 3. HIGHWAY TRAILERS FOR HAULING PORTABLE PLANS DESCRIBED IN ITEM 2 TO NUMBER POSSIBLE. DO NOT DELAY SHIPMENT OF GENERATORS PENDING TRAILER SHIPMENT. ITEM 4. 6 EACH TRUCKS, 2 TO 5 TONS, COMPLETE WITH SUITABLE EQUIPMENT AND TOOLS FOR MAKING TRANSMISSION LINE REPAIRS AND EMERGENCY POWER CONNECTIONS. ITEM 5. LIST OF ENLISTED ARMY PERSONNEL THIS THEATER WITH EXPERIENCE IN ELECTRIC UTILITY WORK FOR MAKING TRANSMISSION LINE REPAIRS AND EMERGENCY POWER CONNECTIONS. THIS IS PARAPHRASE OF CABLE FBS 2902 OF 21 DECEMBER DATE TRANSMISSION AT REQUEST OF W L CISLER, LT COL OF WAR DEPARTMENT.

 INFO. - ENGR
 G-4
 TRANS
 SECY
 C.G.

ENGINEER SERVICE

SECRET

IO286

PRIORITY

SOS NATOUA

Edited Literal

Use of Standard 50 or 60 cycle generators operating at lower speeds is proposed to obtain required frequency to suit existing 42, 45 and 50 cycle systems. Reference your radio L-4883 cite SSOPN-598-R. Effect on power output and voltage makes standard 50 cycle machines more desirable but 60 cycle generators have been successfully used both here and in North Africa on 45 and 50 cycle systems. Anticipated early need this equipment necessary ⁷⁵ immediate shipment of standard units now manufactured even if diverted from other users.

ENGINEER SERVICE, PBS

CONFIDENTIAL

IO286

ROUTINE

SOS, NATOUSA

Edited Literal

PBS 4764 Present status of Diesel generating equipment is requested. Reference radio Penisular Base Section- 2945 cite EPENG.

Anticipated needs require early delivery of portable equipment in whole or in part.

ENGINEER SERVICE, FBS

SECRET

PRIORITY

MERIT

56 _____ WALKER LOVE CISLER OF WAR DEPARTMENT REQUESTS THE
FOLLOWING MESSAGE BE TRANSMITTED TO AGWAR FOR WILLIAM PETER BAKER FOR KRUG
FOR STRONG PD RERAD NO REFERENCE NUMBER CITE WILLIAM DOG GEORGE BAKER ITEM
DATED TWO NINE FOUR THREE PD PENCE TO LARKIN PD CITE BPENG PD ASSURANCE HAS
BEEN GIVEN BY ALLIED FORCE HEADQUARTERS ADVANC ADMINISTRATIVE ECHELON THAT
SUITABLE CRAFT WILL BE MADE AVAILABLE WHEN ELECTRIC POWER EQUIPMENT IS READY FOR
INSTALLATION.

L.F. NICKEL,
Lt. Colonel, A.G.D.,
Adjutant General.

ENGINEER SERVICE *PBS*

SECRET

10286

PRIORITY

SOS, NATOUSA

Edited Literal

IBS 4823 Walker L. Cisler of War Department requests the following message be transmitted to AGWAR for "PB for Krug. Reference radio no reference number cite WDGBI dated 29 December 1943. Assurance has been given by Allied Force Headquarters Advance Administrative Echelon that suitable craft will be made available when electric power equipment is ready for installation.

B. D. Anderson ^{ERN} concurred

EIGHTH AMPHIBIOUS FORCE

INCOMING MESSAGE

5/3I

CLASSIFICATION: SECRET

DATE 31 DECEMBER 1943

PRECEDENCE : PRIORITY

WRITE UP BY: CALLON

DECODED BY : EVANS/ 31/220

TIME REC'D ACTION OFFICER

RADIO	VISUAL	TELEPRINTER	TELEPHONE	HAND
FROM COMNAVNAV				
INFO CG NAPLES (CISLER) / CTF 81 (OPS & ADM)				

30163IA

COMNAVNAV REENCYPHERS AGWAR'S 292209 TO BOOK MESSAGE ALGIERS AND NAPLES FREEDOM
 PASS TO CG NAPLES FOR CISLER FOR CTF 81 (OPS & ADM) FOR INFO X QUOTE REFERENCE
 NO THIS MESSAGE 5910 X 29 DECEMBER 1943 X ATTENTION INVITED OUR 4659 DECEMBER 11
 TO NATO X DIRECTED BY NAVY CONCURRED IN BY WAR DEPARTMENT X REFERENCE STRICT
 LIMITATIONS USE LCT OPERATIONAL USE ONLY X CONNECTION YOUR PBS 2902 DECEMBER 21
 ADDRESSED TO KRUG WAR PRODUCTION BOARD X SOME OTHER SORT PROPELLED BARGE MUST
 BE USED AND YOUR REQUISITIONS CHANGED ACCORDINGLY UNQUOTE.

FAWIT PANTO C. G. NAPLES (CISLER)

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ADMIRAL	INTELLIGENCE	COMMUNICATIONS	ANSWERED
CHIEF OF STAFF	OPERATIONS	FLAG SECRETARY	D-T GROUP
PERSONNEL	SUPPLY & MAIN	MEDICAL	30163IA

ENGINEERS SERVICE

SECRET

I0286

ROUTINE

SOS, NATOUSA

Edited Literal

FBS 4762 Walker L. Cisler of War Department requests the following message be transmitted to AGWAR for WFB for Krug for action, to USFOR (Information) British Chiefs of Staff, NYPOE for information. Flexible cables for 9,000 volts can be eliminated if shipment of main equipment would be delayed. Reference your radio R566/6 Freedom 64.32, USFOR ROGER

WXLB
7702 MXCB 2075 cite CCAC (Cal 107).

Terminal voltage taps for 42 & 45 cycle operation can be made the same since

Terminal voltages obtained will be within permissible limits of utilizing equipment. Separate terminal voltage taps required for 50 cycle operation.

This pertains to I27 Del ta-220 WYE and also ¹⁵⁰560 . Delta- 260 WYE each ^{for} installation.

See Power Mission

HEADQUARTERS
ALLIED CONTROL COMMISSION
c/o AGP, Hq, PBS
APO 782

30 December 1943

SUBJECT: Floating Power Plants.

TO : J. A. Krug, Director
Office of War Utilities
War Production Board
Social Security Building
Washington, D. C.

This letter is in reference to cable messages regarding Floating Power Plants C and D. Your prompt reply is appreciated, but was delayed in delivery to the undersigned until 26 December 1943.

In the opinion of Colonel Crowdon and myself, the alterations and additions to Plant C should be made to permit overseas operation at 42, 45, and 50 cycles if required. Otherwise this particular means of meeting an emergency power situation in occupied areas will be lost.

Observation and examination of demolition and damage from other causes gives strong proof of what may be expected elsewhere. This situation is generally agreed to. It is suggested that a decision be made by responsible authorities in Washington who are in a position to act for the overall problem of meeting such situations.

In the case of Plant D, we are of the opinion that no other alterations and additions should be made than those already in progress.

The undersigned considers it important to meet you in London in January in order to discuss power equipment problems within this area and elsewhere. Travel orders will be requested to that end. Please advise approximate date of arrival there. It will not be necessary for you to come to Algiers.

WALKER L. CISLER
Lt. Col., AUS

36362

Electric Power Mission

HEADQUARTERS
ALLIED CONTROL COMMISSION
c/o AGO - Hq., PBS
APO 782

30 December 1943

SUBJECT: Emergency Power Equipment.

TO : J. A. Krug, Director
Office of War Utilities
War Production Board
Social Security Building
Washington, D. C.

This letter is to supplement the radio message already sent you requesting that immediate steps be taken to make available and send to this area emergency power facilities to meet, in part, anticipated urgent needs as a result of demolition and damage to existing facilities.

Because of transportation difficulties, it is important to have available as soon as possible three floating plants of about 1000 KW each made up of two, one or three Diesel engine generator sets to be installed locally on landing LCT's to be made available locally. These plants are to be complete in themselves and will be moved to the required location and provide power for meeting essential initial requirements. They will remain on location until other power sources are available. When in service, power will be supplied thru the tap changing transformer to the primary distribution circuits by means of the flexible power leads. Operation at 42, 45, and 50 cycles is required to meet frequencies in use. It is desirable, but not necessary, to have the equipment suitable for 60 cycle operation, also in connection with U.S. utilization equipment. First use will probably be in 45 cycle area.

The selection of the equipment to be used and the entire installation arrangement is left entirely in the hands of the Office of War Utilities. Only the actual installation will be done locally and the labor and time to do this should be held to a minimum. Hence the desire for assembly as far as possible.

In the case of the portable Diesel engine generator sets ranging in size from 200 to 400 KW, these will be connected into secondary distribution circuits and may operate in parallel with similar units or with floating units. Shipment of these units should not be delayed pending shipment of trailers as similar equipment for other uses is already in the area.

The line trucks are important and could be used for making repairs to transmission lines. It is hoped that these can be made available from utilities and shipped quickly.

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The list of enlisted personnel is for the purpose of getting together a group of experienced line and substation construction men who are now in this area. If such a list can be obtained from the utilities the same as for the officer personnel list it will be most helpful.

All of this equipment is being ordered through regular paths. Special tools and spare parts should accompany the equipment is possible. Detailed communications regarding this equipment can best be sent by the same means as will carry this letter.

Radio message replying to request for this equipment has been received since this letter was prepared. Anticipated use of LCT plants will be in a location unsuitable to the Jacona which is being considered for other use. Advise on this will be sent soon.

WALKER L. CISLER
Lt. Col., AUS

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