

Declass Review, NIMA/DoD

✓ Ref: E80

26 March 1964

STATOTHR

██████████
General Services Administration
Region 3
7th and D Streets
Washington 25, D. C.

STATOTHR

Dear ██████████ STATOTHR

At the request of Mr. ██████████ I am writing you regarding the electrical requirements for our installation.

STATOTHR

We will build and test the plotting table cable connected to its control unit here at ██████████. Then we will disconnect them, ship them, and move into the plotter room in Washington. When we arrive, we would like to place the three Solo transformers (previously mentioned) out in the maintenance area.

I am enclosing a one-line diagram of the power wiring required for the installation. As mentioned before, the supply voltage for the Solo transformers will be 240/416 V four-wire Wye. Power requirements will be between 5 and 6 KVA per transformer or 15 to 18 KVA total. The output will be 40 amp, 120/208 V, four-wire Wye with the neutral ungrounded. The Solo transformers will have to be turned on and off fairly frequently, and it would be advantageous to do this switching on the primary side. If that is possible, we will furnish one Allen Bradley Bulletin 702, Size 1 or 2, enclosed contactor to be mounted in the maintenance area, but controlled via pilot wired from our equipment.

In addition to the regulated power obtained from the Solo transformers, we will require some unregulated power to supply our digital electronics and auxiliary equipment. A 20 ampere four-wire Wye service from the 240/416 V primary supply will be adequate for this purpose, provided the neutral is grounded.

We understand that you will provide a two-speed blower for the cooling air and also a vacuum pump. Both of these devices will be installed in the maintenance area and will have to be controlled from our equipment in the plotter room. The motor starters controlling the blower and the vacuum pump should be equipped with 115 volt AC coils. Control power for all contactors and starters should be supplied from our equipment so that all push button contacts, relay contacts, etc., are dead when power is turned off in our equipment.

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To summarize, we will furnish three Sola type CVN Transformers, Catalog No. 20-27-250 G 36 and the Size 1 or 2 primary contactor for them.

We understand that the blower and the vacuum pump together with their starters will be government-furnished equipment.

We will need the following cables through the wall separating the maintenance area from the plotter room:

1. One four-wire 40 ampere cable for the output of the Sola transformers.
2. One four-wire 20 ampere cable with neutral grounded for the unregulated power.
3. One 12 to 18 wire control cable for controlling contactor coils.

All three cables can be run in the same conduit or through the same hole in the wall if desired.

Please let us know if you have any objections to the proposed power scheme or if there are any questions we can answer.

Very truly yours,

STATOTHR

[REDACTED]
Senior Engineer

PNH/bd

Enclosure: DWG.No. BY0045