

This is a request for approval to use a special purpose Mobile Electric Power Generating Source (MEPGS) not listed in MIL-STD 633, Mobile Electric Power Generating Source Characteristics.

1. Originating organization identification

- a. Department:
- b. Command:
- c. Division, branch or office:
- d. Mail symbol:
- e. Address:
- f. Contact (name):
- g. Telephone: (include COMMERCIAL and DSN extensions)

2. System identification and data:

- a. Nomenclature:
- b. System designator:
- c. NSN:
- d. System status: (R&D, production, fielded)
- e. Power requirements of using system (attach Purchase Description, Specification, or Statement of Work covering power source requirements):

(1) Maximum rated load (all system components energized)

AC ____ kW ____ V ____ Hz ____ Phase ____ PF

DC ____ kW ____ V ____ % ____ Ripple

[If load temperature dependent, provide power requirements at temperature extremes.]

(2) Nominal load [the kilowatt sum of those components that operate during operational scenarios]

AC ____ kW ____ V ____ Hz ____ Phase ____ PF ____

DC ____ kW ____ V ____ % ____ Ripple

[If load temperature dependent, provide power requirements at temperature extremes.]

(3) Voltage regulation requirement:

_____ % regulation [no load to rated load]

_____ % bandwidth steady state stability (short term, 30 seconds)

_____ % transient dip/rise (upon sudden application or removal of rated load)

+/- _____ seconds, recovery after transient

(4) Frequency regulation requirement:

_____ % regulation [no load to rated load]

_____ % bandwidth, constant load deviation [short term, 30 seconds]

_____ % transient overshoot/undershoot [upon sudden application or removal of rate load]

+/- _____ seconds, recovery after transient

[NOTE: State bandwidth value in 2e(3) above as percent of rated voltage ; state bandwidth value in 2e(4) as percent of rated frequency.]

f. Other requirements for MEPGS (Special or unusual requirements must be justified and classified as essential or desirable.)

- (1) Environmental [Temperature range, altitude requirements (both rated and derated conditions), and storage temperatures.]
- (2) Transportability [e.g., railroad, truck, trailer, aircraft.]
- (3) Shock and vibration
- (4) Size and weight [both dry and wet (operational)]
- (5) Mean time between major overhauls
- (6) Reliability [include confidence level.]
- (7) Maintainability
- (8) Other Special or Unusual: [e.g., remote control, special fuel, load transfer, paralleling]

g. System, vehicle, or end item requiring power source

- (1) Calendar year of initial fielding
- (2) Estimated remaining life (calendar year)
- (3) Is request for deviation due to change in the original item?
_____ Yes _____ No

3. Identify the special purpose item requested:

a. Make and model:

b. NSN:

c. Power rating:

d. Engine make and model:

e. Engine type:

_____ Spark ignition _____ Gas turbine
_____ Compression ignition _____ Other

f. Engine cooling: _____ Air _____ Liquid

g. Is item used in other military applications? _____ Yes _____ No

If yes, identify one or more end item applications:

h. Are technical manuals available for operation and maintenance of the requested generator sets?

_____ Yes _____ No

_____ Commercial _____ Military

i. Are repair parts, special tools, and test equipment available within the Service or agency supply system or the DoD supply system?

_____ Yes _____ No

j. What action will be taken by the requester to ensure logistical support of the deviation item if approval is granted to include depot-level rebuild or overhaul plans?

k. Has the requested item been adequately tested to ensure its suitability for military use?

_____ Yes _____ No If yes, attach copy of test report or state location of test data with point of contact name and telephone number.

- l. Is there an adequate technical data package available for procurement of the requested item? [Identify the Service or agency custodian, address, office symbol, and telephone number.
- m. Is operator and maintenance training now in effect? ____Yes ____No
- n. Planned disposition on generator set upon system end-of-life phase?

4. Quantity of items to be acquired under this request if approved:

Initial quantity _____
Estimated total quantity _____
Date(s) required _____ [Attach time-phased delivery schedule]

5. Identify the nearest Standard Family Item (model number and NSN):

- a. Has the standard family item been tested with the using system?
____Yes ____No
- b. How does the above standard family item fail to meet requirements of using system?
- c. What specific changes would be needed in the standard family item to make it suitable for the using system?
- d. What change in the using system would make it compatible with a standard family generator set?
- e. What action is being taken to adapt the system or major end item to permit interface with a standard family item? [Include the action office, address, office symbol, telephone number, and forecast completion date.]
- f. Total quantity of deviation item in current use by requester:

6. Command approval of request for deviation:

Signature:

Typed name:

Position and Organization:

Telephone number: