

**POWER GENERATION  
LESSON LEARNED  
OIF 5-07**

MSgt Dickson

1st Marine Expeditionary Force

Headquarters Group

Engineer Chief

# INTRODUCTION

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- Issues / Dilemmas encountered
- Selecting Commercial Generators
- Purchasing / Contracts
- MEF Emergency Pool
- Reserve Pool

# ISSUES/ DILEMMAS

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- Insufficient quantity of tactical generators.
- Continuous increase in power requirements for bases.
- Vendors can't deliver equipment in required time.
- Technical experts not involved in selection process.

# ISSUES/DILEMMAS

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- Improper generator sizing.
- Ambient temperature.
- Refurbished equipment (pictures).

# ISSUES/DILEMMAS

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- Multiple manufactured engines and generators.
- Equipment maintenance plan.

# SELECTING GENERATORS

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- Electrical Assessment (Seabees/Marine/Army).
- Indefinite Delivery Indefinite Quantity (IDIQ).
- Blanket Purchase Agreement.

# IDIQ

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All new permanent, upgrade, enhancement and renovation base construction projects document shall stipulate use of approved generation systems on all bases, camps or posts in the Al Anbar province of Iraq.

# IDIQ

An Indefinite Delivery Indefinite Quantity contract will:

- Help stabilize the generator purchase process.
- Simplify the generator purchasing process.
- Shorten the generator delivery time.

# IDIQ

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- Standardized ordering will encourage standardized base power grids, thereby lowering maintenance (less repair parts for multiple manufactured engines and generators).
- The recommended generator sizes are standard for the industry.

# IDIQ (CONT...)

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## Generators under IDIQ

- 1) Cummins
- 2) Caterpillar
- 3) FG Wilson
- 4) Marapco

# GENERATOR SPECS

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- Prime Power only.
- Capable of operating at temperatures as high as 55 degree Celsius.
- 50 hertz (HZ).
- 220volts low side and 415 volts high side
- Generator must be covered by a weather / sound reduction enclosure including a muffler.
- Secondary containment.

# GENERATOR SPECS

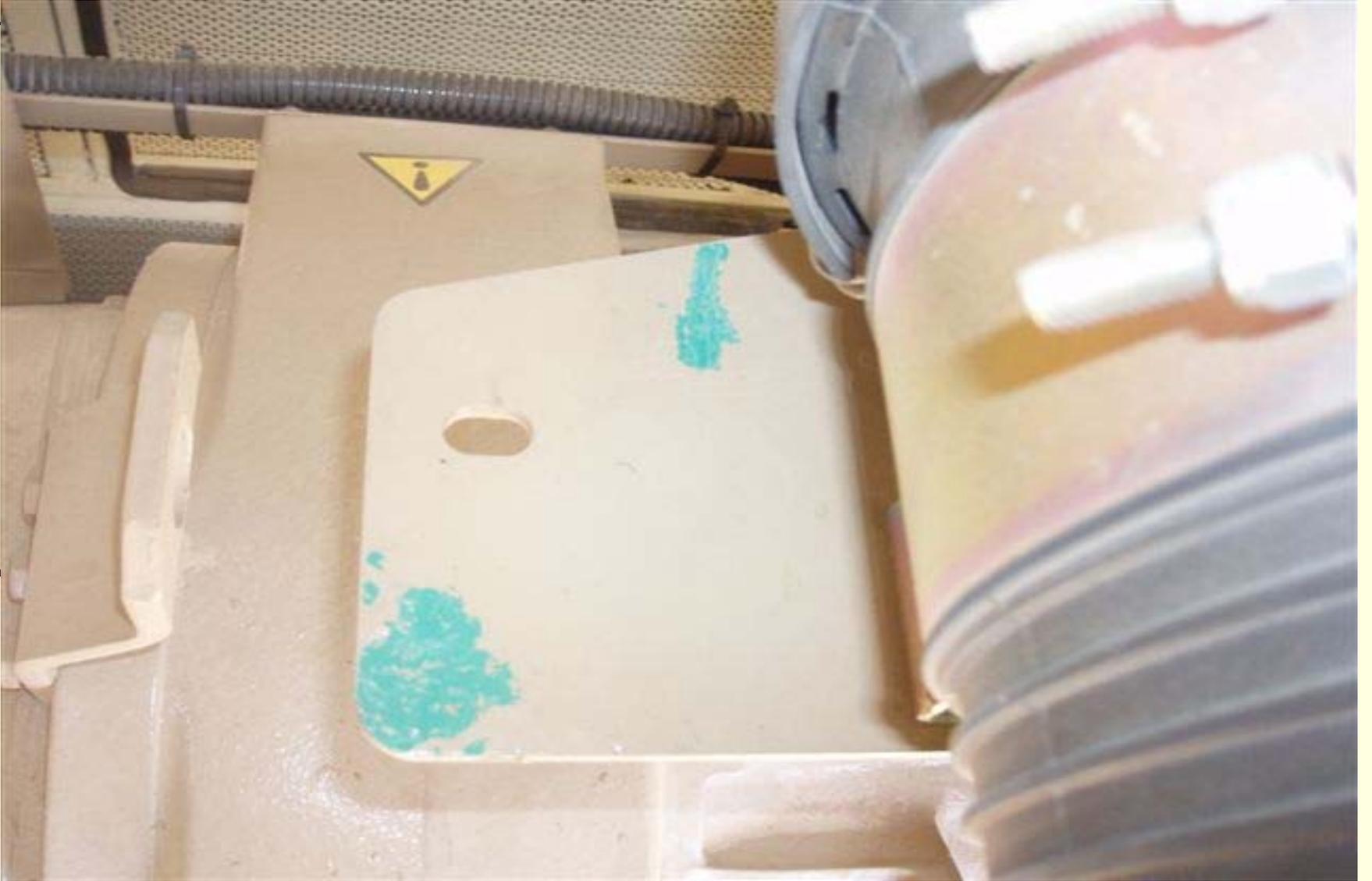
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- Must include 6 month “push package”.
- Repair parts for diesel motor and generator must be readily available in Iraq, Saudi Arabia, Kuwait.
- Diesel motors must be manufactured by the Cummins and/or Caterpillar and licensed for sale and distribution.
- Diesel motor and generator warranty starts at the time generator has been delivered and accepted.

# WHAT WE MUST AVOID

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- CONTRACT FOR NEW GENERATORS.
- RECEIVED REFURBISHED GENERATORS.











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# PURCHASING/CONTRACTS

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## STEPS

- Validate base/unit requirements.
- **Statement of Work.**
- Contingency Contracting Office.
- Iraqi first concept

# MEF EMERGENCY POOL

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- Established to provide an emergency generator to units until their primary generator can be repaired.
- Located in two location to better support Coalition and Iraqi Security Forces.
- Generators repaired by ARKEL.

# MEF EMERGENCY POOL

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- Generators for pool are new or repaired generators from bases not maintained by Kellogg Brown and Root and closed bases.

# RESERVE POOL

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- Used to fill new power requirements aboard coalition bases.
- List supplied by KBR of available Commercial Generators.
- Saves millions and prevents unnecessary spending.

# SUMMARY

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- Issues encountered.
- Selecting proper generators to meet requirements.
- Purchasing / Contracts.
- MEF Emergency / Reserve Pool.