Purpose: Develop a procedure for checking and maintaining small engines and generators.

A. Small Engine and Generator Checks -

This procedure is necessary to ensure small engines and generators reach a sufficient temperature to allow for proper combustion. When small engines and generators are operated for only several minutes at a time there can be a negative cumulative effect resulting from incomplete combustion that includes but is not limited too; flooded carburetors, contamination of oil, and overall ineffective operation.

It shall be the responsibility of the engine, ladder, or special hazards company to keep all power equipment, including small engines and generators on the apparatus, in working order.

- Small engines and generators shall include:
  - Apparatus Generators (Both Diesel & Gasoline)
  - Cutter's Edge Saw
  - Chain Saw
  - K-12 or other gasoline powered circular saws
  - Gasoline powered units for "Jaws of Life"
  - Gasoline powered positive pressure fan
  - Gasoline powered floating pump
  - Gasoline powered hydrant pump

- Frequency and duration:
  - Cutter's Edge, K-12, chain saws, and other 2-cylce saws shall be run:
    - On the first day of each tour
    - For a minimum of 5 minutes each

*When operating saws please utilize hearing protection.

- Apparatus generators (both diesel and gasoline), gas powered units for "Jaws of Life," and other 4-cycle gas equipment shall be run:
  - On the first day of each tour
  - For a minimum of 15 minutes each

The above should be operated both with and without a load (i.e. generator operated with lights on and off, Jaws unit operated with hydraulic fluid charged, as well as static.)

B. Small Engine and Generator Maintenance -

It shall be the responsibility of the engine, ladder, or special hazards company to perform basic maintenance of all power equipment contained within the apparatus.

This shall include but is not limited to:

- Overall cleaning of power equipment
  - Often accomplished with small damp rag (note - do not apply water directly on any small engine or generator.)
- Required lubrication
- Inspection of the general condition including hydraulic lines, cutting blades, chains, edges.
- Visual inspection of fuel and oil levels
  - Re-filling fuel and oil when applicable

In the event any small engine, generator, or saw is deemed to need repairs or service, a repair slip shall be submitted via SCM software. If this equipment must be removed from service, the company officer should notify the shift commander in addition to submitting the required repair request.

Additionally, after each (fire ground) use of any saw:

- It shall be checked by the engine, ladder, or special hazards company for any broken Bullets on the chain, fuel and oil level, cleanliness of bar, chain, and air filter.

  and

- A Repair Slip (via SCM software) shall be submitted to the Maintenance Division indicating:
  - The saws use
  - Any operational deficiencies
  - Any other concerns that may have been noticed by the fire company.

The Maintenance Division will schedule the saw for service as soon as practicable following the Repair Slip submission.