

POWER GENERATORS – STATIONARY EMERGENCY GENERATOR OPERATIONS AND MAINTENANCE LOG

The attached three logs (or equivalent) are to be used for tracking the operation and maintenance of **emergency** generators. The fourth log will be placed on site where applicable. These logs are important because they establish mechanisms to demonstrate compliance with regulatory requirements. For a summary of regulatory requirements, see the EHS SOP, **Power Stationary Emergency Generators – Permits and Compliance Requirements**. Failure to maintain required logs is a violation of air quality regulations. Maintain a separate log for each generator. The logs should be readily accessible to facilitate record-keeping and available to EHS or regulatory authorities upon request.

Following three logs are required for **all** emergency generators:

1. EMERGENCY GENERATOR OPERATIONS LOG

- Prior to operating the generator for maintenance/readiness testing, review the log to ensure that the estimated time of operation will not exceed 100 total hours of operation during any consecutive 12-month period. Immediately notify EHS if this total is likely to be exceeded PRIOR to operation. In addition, the generator shall not operate for more than 500 hours during any consecutive 12-month period for any reason.
- Record the date and hour meter reading at the end of each operation, as well as the purpose of each use and operator initials.

2. EMERGENCY GENERATOR FUEL DELIVERY LOG

- Before off-loading fuel to diesel powered generators, verify the fuel sulfur content is $\leq 0.0015\%$ (15 ppm) & minimum cetane index is 40. Record the date, fuel supplier, and gallons of fuel received.

3. EMERGENCY GENERATOR MAINTENANCE LOG

- Record all routine maintenance performed on the generator.

4. EMERGENCY GENERATOR 'EMISSION RELATED' MAINTENANCE LOG

Log #4 is specific to the following emergency generators and can be found in the on-site log book (template not included in this SOP because the form differs based on specific engine requirements as recommended by the manufacturer):

- Compression ignition (i.e., diesel) engines:

- Beadle, Jorgensen, Quilt Center, Animal Science, Morrison, Whittier & Memorial Stadium (southeast), Life Sciences Annex (LScA), Walter Scott (north unit), Devaney Sports Center, City Campus Utility Plant and any other diesel emergency generator ordered and installed after July 11, 2005.
- Spark ignition (i.e., natural gas) engines:
 - Barkley Center, Multicultural Center, Keim Hall, & Hendricks Sports Complex, and any other spark ignition emergency generator ordered and installed after January 1, 2009.

EMERGENCY GENERATOR OPERATIONS LOG

Unit Number & Location/building: _____

Keep this log current. Failure to maintain it is a violation of air quality regulations.

Make/ Model: _____ / Serial Number: _____ Fuel type: _____ HP/ KW: _____ /

DATE	Hour Meter Reading	*Purpose of Operation & Operator Initials	DATE	Hour Meter Reading	*Purpose of Operation & Operator Initials	DATE	Hour Meter Reading	*Purpose of Operation & Operator Initials

*EX = exercise (testing); TWL = Test with Load; Outage = power outage (emergency) etc.

FUEL DELIVERY LOG

DATE (mo/day/year)	*FUEL SUPPLIER	VERIFY 15 ppm SULFUR & MINIMUM CETANE INDEX OF 40 BEFORE OFF LOADING FUEL	GALLONS RECEIVED	PERSONNEL (Name/Initials)
	UNL Transportation Services	YES		
	UNL Transportation Services	YES		
	UNL Transportation Services	YES		
	UNL Transportation Services	YES		
	UNL Transportation Services	YES		
	UNL Transportation Services	YES		
	UNL Transportation Services	YES		
	UNL Transportation Services	YES		
	UNL Transportation Services	YES		
	UNL Transportation Services	YES		
	UNL Transportation Services	YES		
	UNL Transportation Services	YES		
	UNL Transportation Services	YES		
	UNL Transportation Services	YES		
	UNL Transportation Services	YES		
	UNL Transportation Services	YES		
	UNL Transportation Services	YES		
	UNL Transportation Services	YES		
	UNL Transportation Services	YES		
	UNL Transportation Services	YES		
	UNL Transportation Services	YES		

*Contact EHS if fuel supplier changes

**EMERGENCY GENERATOR
MAINTENANCE LOG**

Other/Additional Repair/Service/Maintenance			
Date	Hour Meter Reading	Person Conducting Repair/Service/Maintenance	Description of Repair/Service/Maintenance