

Job Name: _____ Job Site Location: _____

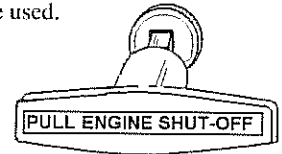
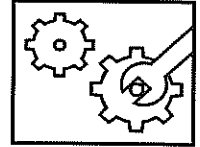
Date: _____ Start Time: _____ Finish Time: _____ Foreman/Supervisor: _____

Topic 369: Scraper Operations (Earth Movers)

Introduction: Scrapers (Earth Movers) are an efficient way to excavate, grade, load, haul, and unload material. Using one scraper for all of these tasks eliminates the need for additional equipment, and the burden of coordinating support equipment which cause downtime for the whole job if the equipment fails. These scrapers, although exceptionally useful, must be operated skillfully to ensure productivity and safety. Following are guidelines for the safe operation of scrapers:

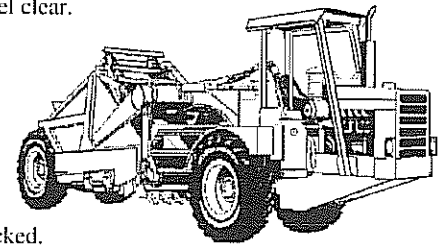
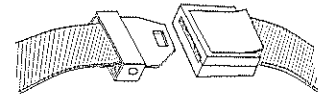
General safety requirements for heavy equipment which apply to scrapers:

- *Employers must ensure* that personnel who operate scrapers are properly trained and qualified.
- *Scraper equipment and systems* must be checked at the start of each shift.
- *Before repairs* are made, workers must comply with lockout/blockout-tagout requirements. General repairs must not be made to powered equipment until workers are protected from movement of the equipment or its parts.
- *Wherever mobile equipment* operations encroach on a public thoroughfare, a system of traffic controls must be used.
- *Flagger are required* at all locations where barricades and warning signs cannot control traffic flow.
- *Machines must be equipped* with operable service, emergency, and parking brakes.
- *Machines must have* two operable headlights and taillights for night operation.
- *Machines are required* to have a seat belt and rollover protection (ROPS).
- *The engine must* be shut off for refueling.
- *Dust control* is required when dust seriously limits visibility.
- *Scrapers must be equipped* with a manual warning device (horn) in addition to an automatic back-up alarm of sufficient volume to be heard over general jobsite noise.



Safety measures specific to scraper operations:

- *Read the operators manual* and operate the machine only if trained and considered competent to do so.
- *Do not climb* on the machine where hand and foot holds have not been provided. Use a three point climbing technique whenever entering, exiting, or servicing the machine.
- *Start the scraper only* while sitting in the operator's seat with the seat belt fastened, and all personnel clear.
- *Never make adjustments* or repairs to any part of the machine while the engine is running, unless specifically required by the manufacturer.
- *Use extreme caution* when approaching or operating near excavations. The weight of the machine or vibration may cause the edges to collapse.
- *Use low speeds* over rough terrain or on steep slopes.
- *Always lower* the hopper when parking the machine.
- *Do not leave* the operators seat while the elevators are engaged.
- *Do not place* any part of your body under the blade of a scraper at any time unless it is properly blocked.
- *Keep operator's compartment* free of clutter and all controls free of dirt, oil, and grease. Any tools or personal equipment carried in the operator's compartment must be secured.
- *Rip tight soil* before scraping to improve speed and efficiency.
- *Always load scrapers* down grade to increase the speed of operation, lessen wear on equipment, and reduce the need for a push tractor.
- *Pre-wett soil* to make loading easier and aid in dust control.



Note: Because of the characteristics of scrapers and methods used during earth moving operations, it is advisable for safety to designate dedicated roadways/pathways for scrapers and keep operations well clear of pedestrian and vehicle traffic.

Conclusion: The productivity and safety of scraper operations are increased by using well trained and briefed employees, along with properly maintained and serviced equipment. A well laid out worksite and work-plan always improves efficiency and safety on the jobsite.

Work Site Review

Work-Site Hazards and Safety Suggestions: _____

Personnel Safety Violations: _____

Employee Signatures:

(My signature attests and verifies my understanding of and agreement to comply with, all company safety policies and regulations, and that I have not suffered, experienced, or sustained any recent job-related injury or illness.)

City of San Angelo Foreman/Supervisor's Signature: _____

These guidelines do not supercede local, state, or federal regulations and must not be construed as a substitute for, or legal interpretation of, any OSHA regulations.