CRANE OPERATION

1. The travel of cranes or boom-type excavators shall be controlled so as to avoid collision with persons, material, and equipment.
2. The cabs of units (of revolving type) traveling under their own power shall be turned so as to provide the least obstruction to the operators vision in the direction of travel, unless receiving signals from someone with an unobstructed view.
3. The boom shall be carried in line with the direction of motion.
4. The empty hook shall be lashed or otherwise restrained so that it cannot swing freely.
5. When rotating the crane, sudden stops shall be avoided. Rotational speed shall be such that the load does not swing out beyond the radius at which it can be safely controlled.
6. Tag or restraint lines shall be used where rotation of the load is hazardous.
7. Cranes shall not be operated with wheels or tracks off the ground or working surface at any time unless properly bearing on outriggers.
8. The brakes shall be tested each time a load approaching the rated load is handled by raising the load a few inches and applying the brakes.
9. The load or the boom shall not be lowered below the point where less than two full wraps of rope remain on grooved drums and three full wraps on ungrooved drums.
10. A load shall be lifted by only one crane, unless a multiple-crane lift is performed under a written lift plan prepared by a qualified person and directed by a designated lift supervisor.
11. When practicable, haulage vehicles shall be loaded in such a way that the bucket or boom does not pass over the vehicles driver's position; no loading shall be done until it is determined that the driver is in a safe location.
12. A fire extinguisher of not less than 10-B:C rating shall be kept in serviceable condition and readily accessible to the operators station.
13. Open lights, flames or spark-producing devices shall be kept at a safe distance while refueling the crane.
14. A crane, derrick, or hoist shall not be loaded beyond the rated capacity or safe working load whichever is smaller, except for load testing performed as the manufacturer or a qualified person directs.
15. The load shall be attached to the hook by means of sling or other suitable or effective means.
16. Slings shall be free of kinks or twists before use.
17. The hoist rope shall not be wrapped around the load.
18. When moving the load the individual directing the lift shall see that:
    - The crane is leveled for work being performed and the wheels blocked where necessary
    - The load is well secured and properly balanced in the sling or lifting device before it is lifted a few inches.
    - All individuals assisting in the lift shall wear proper personal protective equipment to include gloves, and hard hats.
19. When a load of any kind is to be suspended for any considerable length of time, the brake shall be firmly applied.
20. Cranes shall not be left unattended while the load is suspended unless the load is suspended over water, a barricaded area, or blocked up or otherwise supported from below during repairs or emergency.

21. Cranes must be inspected by a competent person before each shift and periodically by a qualified person at least annually, and records must be kept. A crane found defective must be tagged and removed from service.
22. Crane operators must be trained, evaluated and qualified or certified as Cal/OSHA requires, and authorized by their employer. The load chart must be available at the operator's station.
23. Maintain at least 10 feet of clearance from energized overhead lines up to 50 kV (greater distances for higher voltages) unless the lines are de-energized and grounded or the Title 8 high-voltage requirements are met. Contact WB Electrical before work near overhead lines.
24. A qualified signal person must be used whenever the operator cannot see the load or the path of travel. No employee may be permitted under a suspended load.