

**Ministerial Regulation No.7, B.E. 2514 (1971)**  
**Prescribing Protective Measures for Workers and Outsiders**

Issued under the provisions of the Petroleum Act, B.E. 2514

**Translation**

In exercise of the power conferred by Section 14 (3) of the Petroleum Act, B.E. 2514, the Minister of National Development hereby issues the following Ministerial Regulations:

1. In conducting petroleum operations, the employer shall:

- (1) maintain a registration book and records of workers performing their work in each petroleum operation work area in accordance with the forms prescribed by the Department of Mineral Resources, and keep such registration book and records at that work area ready to be shown to the competent officer, and send one set of copies to the Department of Mineral Resources within fifteen days from the date of commencing the petroleum operations;
- (2) enter immediately into the registration book whenever a worker enters or leaves employment, and submit a report of such changes together with records of the workers who have just entered or left the employment to the Department of Mineral Resources within the fifth day of the following calendar month;
- (3) provide an adequate supply of medicine and first-aid equipment at each petroleum exploration or production work area so that they shall be readily serviceable free of charge to workers upon their receiving injuries or becoming ill;
- (4) report to the Department of Mineral Resources within seventy-two hours when a physical or mental injury is inflicted upon a worker through performing his duties in connection with the petroleum operations;
- (5) provide for workers at each petroleum operation work area in accordance with good sanitary practice dwellings, drinking water, water for household use, lighting and rest rooms;
- (6) cause to have at any petroleum exploration or production work area where there are twenty or more workers his officer who makes regular inspections for the purpose of safety and accident prevention and records his findings so that they shall serve as evidences and available for examination by the competent officer;
- (7) train his officers in connection with first aid or prevention of injuries arising from work performance, and render co-operation to the Department of Mineral Resources in organizing the training;
- (8) keep each petroleum operation work area in a safe condition, and maintain a competent worker who shall be responsible for close supervision at all times in the course of operations;
- (9) provide fire-fighting apparatus and equipment as required by the laws at various places where petroleum operations are conducted;
- (10) provide adequate safety appliances for workers in appropriation to the conditions and characteristics of work and locations of work at each petroleum operation work area.

2. In using machinery in the conduct of petroleum operations, the employer shall:

- (1) see to it that other persons whose duties and direct responsibilities do not involve any particular machinery shall not be admitted to perform any work in connection with that machinery;

- (2) cause workers who perform their work near moving parts of machinery to wear proper and fitting apparel appropriate to work conditions;
  - (3) have machinery, belts, chains, gears, crankshafts and fly wheels, which may cause injuries to persons, guarded adequately for safety;
  - (4) cause pulleys which are not higher than 2.5 meters from the floor or passage level to be guarded adequately for safety;
  - (5) see to it that no one shall start any machinery till he is definitely certain that no other person is in such proximity as to be endangered by its operation;
  - (6) arrange all passages to be away from machinery at appropriate distances and, for any narrow passage, cause machinery which is adjacent to it to be guarded adequately for safety on the adjacent side;
  - (7) cause those workers who operate mechanically operated grinding wheels to wear goggles;
  - (8) cause all mechanically propelled machinery to be equipped with brakes, warning signals and headlights, all of which shall be in good operating condition.
3. In using a steam boiler in the conduct of petroleum operations, the employer shall:
- (1) cause to have the interior of the steam boiler inspected not less than once a year;
  - (2) cause to have inspections of safety valves made regularly;
  - (3) keep water-level indicators, vapor pressure Indicators and their component parts clean and in good operating condition;
  - (4) prevent any one from repairing a boiler or components connected to it while vapor pressure is still active;
  - (5) provide not less than two exits from the boiler room and, if doors are used at the exits, use only such doors which open outwards.
4. In using electricity in the conduct of petroleum operations, the employer shall:
- (1) cause all overhead high-voltage power lines to be placed not less than five meters above the ground and, if necessary, to place them over buildings or other structures, not less than three meters above the top of such buildings and structures;
  - (2) cause lightning arresters to be installed on high-voltage circuits and appliances;
  - (3) have signs reading "Danger-High Voltage" with white background and red letters posted conspicuously at high-voltage transformer stations and high-voltage switchboard installations;
  - (4) cause all metallic frames, casings or other enclosures of motors or generators, switchboards or other electrical appliances, that can become alive electrically, to be grounded effectively;
  - (5) have ground circuits inspected regularly to ensure their serviceable conditions;
  - (6) make arrangements at the site of each switchboard to have,
    - (a) open space around it sufficient to work with ease;
    - (b) adequate illumination;
    - (c) circuit breakers in case of an emergency;
  - (7) provide signs indicating clearly the duty of each electrical switch at each particular switch;
  - (8) prevent performance of any work in connection with energized electrical circuits unless it is absolutely necessary to do so;

- (9) tie or lock a high-voltage switch whenever the switch is turned off from a circuit, and have a sign reading "Danger-Do Not Turn On the Switch" posted conspicuously there;
- (10) prevent any one from turning on any switch in a circuit until it is definitely certain that no other person is working in connection with that particular circuit;
- (11) prevent any one from wiring energized cables;
- (12) not install non-insulated wires branching to or within buildings or other structures. In using explosives in the conduct of petroleum operations, the employer shall:
  - (1) provide magazines of the following descriptions:
    - (a) The building itself shall be constructed of fire-resistant material and is reasonably bulletproof and waterproof: and its ground floor shall be built with non-sparking material.
    - (b) Each magazine shall be not less than seventy-five meters from other buildings and not less than a hundred meters from a shaft, an audit or any other underground opening.
    - (c) Each magazine shall be kept locked securely.
    - (d) Warning signs reading "Danger Explosives" with white background and red letters shall be posted conspicuously around each magazine.
    - (e) Each magazine shall be well ventilated.
  - (2) not store extraneous materials in a magazine;
  - (3) keep the area surrounding the magazine for eight meters in all directions free of dry grass or other materials of a combustible nature;
  - (4) store explosives, detonators or fuses in separate magazines, each magazine being not less than thirty meters away from the other;
  - (5) maintain a book showing an up-to-date inventory of explosives, detonator, and fuses ready to be shown to the competent officer at all times;
  - (6) neither store nor use any deteriorated explosives;
  - (7) see to it that detonators shall not be carried with explosives;
  - (8) see to it that metals, equipment made of metal oil matches, acids or any other combustible or sparking materials shall not be transported in vehicles carrying explosives;
  - (9) prevent persons other than authorized workers to perform the work in connection with loading holes for blasting;
  - (10) see to it that materials other than wood shall not be used in loading the holes;
  - (11) have all kinds of flames removed from the blasting holes to a safe distance while the holes are being loaded;
  - (12) see to it that no one smokes, strikes matches, or creates sparks or flames while performing work in connection with explosives;
  - (13) have surplus explosives remaining from his daily use returned promptly to the magazine;
  - (14) have blasters giving generally recognized warning signals prior to firing a blast, and giving the all-clear signals to let workers return to the blasting area only when such area is free from dust, smoke or misfires and, in any case, not sooner than fifteen minutes after the blast;

- (15) see to it that a misfire shall be corrected by blasting a new hole drilled in parallel to the misfire at a distance of not less than fifty centimeters;
- (16) use ordinary fuse of not less than one meter in length;
- (17) see to it that a detonator shall not be crimped by any means other than by a crimper specially made for such work;
- (18) prevent any one from using materials other than copper or wood in punching a hole in a cartridge for placing a detonator and fuse;
- (19) fire the blast electrically in the following manners:
  - (a) An electric detonator shall be short-circuited at both legs until ready to blast.
  - (b) The firing lines shall be short-circuited until ready to blast.
  - (c) When firing from a power circuit, a two-way electric switch shall be used and it shall be placed at a safe distance from the blasting area; and both lines shall be short-circuited until ready to blast.
- (20) cause signs reading "Danger-Blasting Area" with white background and red letters to be posted conspicuously around the blasting area within a radius of a hundred meter.

Given on this 13th Day of September B.E.2514

Signed by Mr. Pote Sarasin

Minister of National Development

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