

19.1.2 Each such device shall be clearly marked "Emergency Stop".

19.1.3 An automatic stopping device shall be fitted to stop the chair lift in the event of the rope departing from its normal running position or derailing from any sheave or sheave train.

#### 19.2 Surface Lifts:

19.2.1 Each lift shall be equipped at each loading and unloading point with a device to stop the lift.

19.2.2 If the attendant in charge cannot see the entire length of the lift line further lift stop devices shall be installed at points designated by the Board along the lift line.

19.2.3 Each stop device shall be clearly marked "Emergency Stop".

19.2.4 Each lift shall be equipped at or near the upper terminal with an automatic safety stop which will be actuated when a passenger who has not released the towing device at a predetermined distance from the upper terminal installation and which will bring the rope to a stop within half the distance between the stop device and the upper terminal installation or in every case before the passenger or his equipment comes into contact with any machinery or other obstacle.

#### 19.3 Fibre Rope Tows:

19.3.1 Each tow shall be equipped adjacent to and in front of the loading point with a device to stop the tow.

19.3.2 Further stop devices shall be installed at points along the tow line as designated by the Board.

19.3.3 Each stop device shall be clearly marked "Emergency Stop".

19.3.4 An effective automatic tow stop device shall be erected at the unloading point across the tow line in such a manner that it is actuated by a passenger who has passed the unloading area.

The automatic tow stop device shall be capable of bringing the tow to a full stop in half the distance between the stop device and the tow terminal machinery and in every case before the passenger or his equipment can come into contact with the machinery or any other obstacle.

19.3.5 In the case of fibre rope tows having intermediate guide sheaves requiring the use of a rope gripping device, emergency stop devices shall be installed on each rope support pylon and clearly marked "Emergency Stop" provided that in place of emergency stop devices on each pylon, a mechanical stop system of rope or wire may be employed along the length of the tow in such a manner that a pressure of no more than 15 lb applied at any point to the safety rope or wire will actuate the tow stop mechanism and provided also that in the event of breakage or other failure of the safety rope or wire, the tow is brought to a stop.

## 20. SPECIAL REQUIREMENTS:

### 20.1 Chair Lifts:

20.1.1 Each tower shall be fitted with an anti-crash bar designed to prevent chairs or the arm of the chair striking any part of the tower unless the designer of the chair lift certifies to the satisfaction of the Board that either an anti-crash bar is unnecessary or would create a greater hazard than that desired to be avoided by the fitting thereof.

20.1.2 Chairs shall be equipped with a railing at each side, to a height of not less than 6 in. above the seat for a distance of not less than 12 in. from the back of the seat.

20.1.3 Chairs shall have rounded corners and have no projections which may catch clothing, straps, or any equipment carried by the passenger.

20.1.4 The licensee shall not permit the use of the lift by any person carrying anything likely to impede that person in using the lift in a safe and proper manner.

20.1.5 Each chair shall be fitted with a safety bar in front of the passenger fitted in such a manner that a passenger is unable to fall forward out of the chair unless the designer of the chair lift certifies to the satisfaction of the Board that because of the design of the chair a safety bar is unnecessary or would create a greater hazard than that desired to be avoided by the fitting thereof.

20.1.6 Adequate rescue equipment shall be provided for each chair lift for removing passengers from suspended chairs in the shortest possible time in the event of a complete stoppage.

20.1.7 Except in an emergency or for the conveyance of sick or injured persons, no person shall be permitted to use the chair lift except in the chairs provided.

20.1.8 Passengers on a chair lift shall remain seated and shall use the facility in an orderly and proper manner and shall not throw or expel therefrom any object or do any act or thing which shall interfere with the operation of the chair lift.

20.1.9 A person shall not embark or disembark at other than attended loading and unloading points.

20.1.10 Each chair lift shall be fitted with an auxiliary internal combustion motor which shall be maintained in such a condition that it can be brought quickly into use in the event of a power failure or other stoppage requiring the immediate unloading of passengers.

### 20.2 Surface Lifts:

20.2.1 Any towing device which envelopes the passenger, such as a strap, shall not be installed.

20.2.2 If any retractable towing device fails to retract, the lift shall be stopped immediately and the device removed from the rope.

20.2.3 Except with the specific approval of the Board given under such terms and conditions as it thinks fit, a surface lift requiring the passenger to hold the towing device while it retracts shall not be permitted.

20.2.4 Towing devices shall be of sufficient length so that the shortest passenger remains in firm contact with the snow at all times.

20.2.5 T-bar type towing attachments shall be of durable material and shape and of sufficient width so that the passenger is held into the bar and does not tend to slip off the end.

20.2.6 Wooden T-bars shall be constructed of wood which does not splinter in the event of damage.

20.2.7 Disc or platter type attachments shall have rounded edges and shall be of sufficient width to enable the passenger to position himself comfortably during travel.

20.2.8 Towing devices which do not accelerate the passenger smoothly from a standing start shall be removed from the rope.

20.2.9 A surface lift shall not be operated if any part of the usable length between the loading and unloading points has a reverse (downward) slope.

### 20.3 Fibre Rope Tows:

20.3.1 Novice rope tows shall not contain intermediate guide sheaves on the haul rope between the loading and unloading areas.

20.3.2 The prime mover of a rope tow shall have sufficient power output to start the tow when fully loaded and speed reducers shall have ample capacity to withstand starting the tow when fully loaded.

20.3.3 Where used, clutches shall be of ample size to carry the load and permit controlled slipping for smooth acceleration during starting without overheating.

20.3.4 A satisfactory method shall be provided to ensure smooth acceleration when starting from a full stop whether under no load or maximum load conditions.

20.3.5 Constant operating speed shall be maintained.

20.3.6 Rope drive and idler sheaves shall be of such design and so arranged as to prevent undue stressing, wear, or disfiguration of the rope.

20.3.7 Rope drive sheaves, idler sheaves, return or head sheaves and deflection sheaves shall be sheaves, pulleys, or wheels grooved for the diameter of rope in use.

20.3.8 Counterweights or other tensioning devices shall be adequate to prevent the rope slipping on the drive sheave but shall not impose excessive tension on the haul rope.

20.3.9 When the haul rope is correctly tensioned but tension is insufficient to retain the return rope in the grooves of one or more of the return rope sheaves at all times, a suitable device shall be used to prevent the rope leaving the sheave or sheaves.

20.3.10 A head sheave positioned at the end of the tow opposite the drive mechanism shall be grooved and mounted so that the rope cannot jump off the sheave. It shall be mounted in a manner to prevent the sheave falling to the ground if the rope breaks.

20.3.11 The licensee shall each day, before use by the public, ensure that the tow is inspected for satisfactory operation and that all safety devices are functioning.

20.3.12 The rope shall be manila or synthetic fibre rope of a type selected as suitable for ski tow use with a special lay or braid to minimise twist.