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protection area shall be that of the taxi-roof. 3.2.49 When a helicopter stand is used for turning, the minimum dimension of the stand and protection area shall be not less than 2 D. 3.2.50 When a helicopter stand is used for turning, it shall be surrounded by a protection area which extends for a distance of 0.4 D from the edge of the helicopter stand. 33. Annex 14 — Aerodromes Volume II 19/11/09 3-14 3.2.51 For simultaneous operations, the protection area of helicopter stands and their associated taxi-routes shall not overlap. Note.— Where non-simultaneous operations are envisaged, the protection area of helicopter stands and their associated taxi-routes may overlap. 3.2.52 When intended to be used for ground taxi operations by wheeled helicopters, the dimensions of a helicopter stand shall take into account the minimum turn radius of the wheeled helicopters the stand is intended to serve. 3.2.53 A helicopter stand and associated protection area intended to be used for air taxiing shall provide ground effect. 3.2.54 No fixed objects shall be permitted on a helicopter stand and the associated protection area. 3.2.55 The central zone of the helicopter stand shall be capable of withstanding the traffic of the helicopters it is intended to serve and have a load-bearing area: a) of diameter not less than 0.83 D of the largest helicopter it is intended to serve; or b) for a helicopter stand intended to be used for ground taxi-through, the same width as the ground taxiway. 3.2.56 The central zone of a helicopter stand intended to be used for ground taxiing only shall be static load-bearing. 3.2.57 The central zone of a helicopter stand intended to be used for air taxiing shall be dynamic load-bearing. Note.— For a helicopter stand intended to be used for turning on the ground, the dimension of the central zone might have to be increased. 3.3 Helidecks Note.— The following specifications are for helidecks located on structures engaged in such activities as mineral exploitation, research or construction. See 3.4 for shipboard heliport provisions. Final approach and take-off areas and touchdown and lift-off areas Note.— On helidecks it is presumed that the FATO and the TLOF will be coincidental. Reference to FATO within the helideck section of this Annex is assumed to include the TLOF. Guidance on the effects of airflow direction and turbulence, prevailing wind velocity and high temperatures from gas turbine exhausts or flare radiated heat on the location of the FATO is given in the Heliport Manual (Doc 9261). 3.3.1 The specifications in 3.3.9 and 3.3.10 shall be applicable for helidecks completed on or after 1 January 2012. 3.3.2 A helideck shall be provided with at least one FATO. 3.3.3 A FATO may be any shape but shall be of sufficient size to contain: a) for helicopters with an MTOM of more than 3 175 kg, an area within which can be accommodated a circle of diameter not less than 1.0 D of the largest helicopter the helideck is intended to serve; and b) for helicopters with an MTOM of 3 175 kg or less, an area within which can be accommodated a circle of diameter not less than 0.83 D of the largest helicopter the helideck is intended to serve. 3.3.4 Chapter 3 Annex 14 — Aerodromes 3-15 19/11/09 3.3.4 Recommendation.— For helicopters with an MTOM of 3 175 kg or less, the FATO should be of sufficient size to contain an area within which can be accommodated a circle of diameter not less than 1.0 D of the largest helicopter the helideck is intended to serve. 3.3.5 A FATO shall be dynamic load-bearing. 3.3.6 A FATO shall provide ground effect. 3.3.7 No fixed object shall be permitted around the edge of the FATO, except for frangible objects, which, because of their function, must be located thereon. 3.3.8 Objects whose function require them to be located on the edge of the FATO shall not exceed a height of 25 cm, except that in the case of a FATO of diameter less than 1 D, the maximum height of such objects shall not exceed a height of 5 cm. 3.3.9 Objects whose function requires them to be located within the FATO (such as lighting or nets) shall not exceed a height of 2.5 cm. Such objects may be present only if they do not represent a hazard to helicopters. Note.— Examples of potential hazards include nets or raised fittings on the deck that might induce dynamic rollover for helicopters equipped with skids. 3.3.10 Safety net or safety shelves shall be located around the edge of a helideck but shall not exceed the helideck height. 3.3.11 The surface of the FATO shall be skid-resistant to both helicopters and persons and be sloped to prevent pooling of water. Note.— Guidance on rendering the surface of the FATO skid-resistant is contained in the Heliport Manual (Doc 9261). 3.4 Shipboard heliports 3.4.1 The specifications in 3.4.11 shall be applicable to shipboard heliports completed on or after 1 January 2012. 3.4.2 When helicopter operating areas are provided in the bow or stern of a ship or are purpose-built above the ship's structure, they shall be regarded as purpose-built shipboard heliports. Final approach and take-off areas and touchdown and lift-off areas Note.— On shipboard heliports, it is presumed that the FATO and the TLOF will be coincidental. Reference to FATO within the shipboard heliport section of this Annex is assumed to include the TLOF. Guidance on the effects of airflow direction and turbulence, prevailing wind velocity and high temperature from gas turbine exhausts or flare radiated heat on the location of the FATO is given in the Heliport Manual (Doc 9261). 3.4.3 Shipboard heliports shall be provided with at least one FATO. 3.4.4 The FATO of a shipboard heliport shall be dynamic load-bearing. 3.4.5 The FATO of a shipboard heliport shall provide ground effect. 3.4.6 For purpose-built shipboard heliports provided in a location other than the bow or stern, the FATO shall be of sufficient size to contain a circle with a diameter not less than 1.0 D of the largest helicopter the heliport is intended to serve. 3.4.7 For purpose-built shipboard heliports provided in the bow or stern of a ship, the FATO shall be of sufficient size to: a) contain a circle with a diameter not less than 1 D of the largest helicopter the heliport is intended to serve; or b) for operations with limited touchdown directions, contain an area within which can be accommodated two opposing arcs of a circle with a diameter not less than 1 D in the helicopter's longitudinal direction The minimum width of the heliport shall be not less than 0.83 D (see Figure 3-8). Figure 3-8. Shipboard permitted landing headings for limited heading operations D Permitted heading landing arc 15° 15° 15° BOW Arc of minimum value 1 D 0.83 D 36. Chapter 3 Annex 14 — Aerodromes 3-17 19/11/09 Note 1.— The ship will need to be manoeuvred to ensure that the relative wind is appropriate to the direction of the helicopter touchdown heading. Note 2.— The touchdown heading of the helicopter is limited to the angular distance subtended by the 1 D arc headings, minus the angular distance which corresponds to 15 degrees at each end of the arc. 3.4.8 For non-purpose-built shipboard heliports, the FATO shall be of sufficient size to contain a circle with a diameter not less than 1 D of the largest helicopter the helideck is intended to serve. 3.4.9 No fixed object shall be permitted around the edge of the FATO, except for frangible objects, which, because of their function, must be located thereon. 3.4.10 Objects whose function require them to be located on the edge of the FATO shall not exceed a height of 25 cm. 3.4.11 Objects whose function requires them to be located within the FATO (such as lighting or nets) shall not exceed a height of 2.5 cm. Such objects may be present only if they do not represent a hazard to helicopters. 3.4.12 The surface of the FATO shall be skid-resistant to both helicopters and persons. 37. ANNEX 14 — VOLUME II 4-1 19/11/09 CHAPTER 4. OBSTACLE RESTRICTION AND REMOVAL Note.— The objectives of the specifications in this chapter are to define the airspace around heliports to be maintained free from obstacles so as to permit the intended helicopter operations at the heliports to be conducted safely and to prevent the heliports becoming unusable by the growth of obstacles around them. This is achieved by establishing a series of obstacle limitation surfaces that define the limits to which objects may project into the airspace. 4.1 Obstacle limitation surfaces and sectors Approach surface 4.1.1 Description. An inclined plane or a combination of planes sloping upwards from the end of the safety area and centred on a line passing through the centre of the FATO (see Figure 4-1). 4.1.2 Characteristics. The limits of an approach surface shall comprise: a) an inner edge horizontal and equal in length to the minimum specified width of the FATO plus the safety area, perpendicular to the centre line of the approach surface and located at the outer edge of the safety area; b) two side edges originating at the ends of the inner edge and: 1) for other than a precision approach FATO, diverging uniformly at a specified rate from the vertical plane containing the centre line of the FATO; 2) for a precision approach FATO, diverging uniformly at a specified rate from the vertical plane containing the centre line of the FATO, to a specified height above FATO, and then diverging uniformly at a specified rate to a specified final width and continuing thereafter at that width for the remaining length of the approach surface; and c) an outer edge horizontal and perpendicular to the centre line of the approach surface and at a specified height above the elevation of the FATO. 4.1.3 The elevation of the inner edge shall be the elevation of the safety area at the point on the inner edge that is intersected by the centre line of the approach surface. 4.1.4 The slope(s) of the approach surface shall be measured in the vertical plane containing the centre line of the surface. Note.— For heliports used by helicopters operated in performance class 2 or 3, it is intended that approach paths be selected so as to permit safe forced landing or one-engine-inoperative landings such that, as a minimum requirement, injury to persons on the ground or water or damage to property are minimized. Provisions for forced landing areas are expected to minimize risk of injury to the occupants of the helicopter. The most critical heliport type for which the heliport is intended and the ambient conditions will be factors in determining the suitability of such areas. Transitional surface 4.1.5 Description. A complex surface along the side of the safety area and part of the side of the approach surface, that slopes upwards and outwards to the inner horizontal surface or a predetermined height (see Figure 4-1). 38. Annex 14 — Aerodromes Volume II 19/11/09 4-2 4.1.6 Characteristics. The limits of a transitional surface shall comprise: a) a lower edge beginning at the intersection of the side of the approach surface with the inner horizontal surface, or beginning at a specified height above the lower edge when an inner horizontal surface is not provided, and extending down the side of the approach surface to the inner edge of the approach surface and from there along the length of the side of the safety area parallel to the centre line of the FATO; and b) an upper edge located in the plane of the inner horizontal surface, or at a specified height above the lower edge when an inner horizontal surface is not provided. 4.1.7 The elevation of a point on the lower edge shall be: a) along the side of the approach surface — equal to the elevation of the approach surface at that point; and b) along the safety area — equal to the elevation of the centre line of the FATO opposite that point. Note.— As a result of b) the transitional surface along the safety area will be curved if the profile of the FATO is curved, or a plane if the profile is a straight line. The intersection of the transitional surface with the inner horizontal surface, or upper edge when an inner horizontal surface is not provided, will also be a curved or a straight line depending on the profile of the FATO. 4.1.8 The slope of the transitional surface shall be measured in a vertical plane at right angles to the centre line of the FATO. Inner horizontal surface Note.— The intent of the inner horizontal surface is to allow safe visual manoeuvring. 4.1.9 Description. A circular surface located in a horizontal plane above a FATO and its environs (see Figure 4-1). 4.1.10 Characteristics. The radius of the inner horizontal surface shall be measured from the midpoint of the FATO. 4.1.11 The height of the inner horizontal surface shall be measured above an elevation datum established for such purpose. Note.— Guidance on determining the elevation datum is contained in the Heliport Manual (Doc 9261). Conical surface 4.1.12 Description. A surface sloping upwards and outwards from the periphery of the inner horizontal surface, or from the outer limit of the transitional surface if an inner horizontal surface is not provided (see Figure 4-1). 4.1.13 Characteristics. The limits of the conical surface shall comprise: a) a lower edge coincident with the periphery of the inner horizontal surface, or outer limit of the transitional surface if an inner horizontal surface is not provided; and b) an upper edge located at a specified height above the inner horizontal surface, or above the elevation of the lowest end of the FATO if an inner horizontal surface is not provided. 39. Chapter 4 Annex 14 — Aerodromes 4-3 19/11/09 4.1.14 The slope of the conical surface shall be measured above the horizontal. Take-off climb surface 4.1.15 Description. An inclined plane, a combination of planes or, when a turn is involved, a complex surface sloping upwards from the end of the safety area and centred on a line passing through the centre of the FATO (see Figure 4-1). 4.1.16 Characteristics. The limits of a take-off climb surface shall comprise: a) an inner edge horizontal and equal in length to the minimum specified width of the FATO plus the safety area, perpendicular to the centre line of the take-off climb surface and located at the outer edge of the safety area or clearway; b) two side edges originating at the ends of the inner edge and diverging uniformly at a specified rate from the vertical plane containing the centre line of the FATO; and c) an outer edge horizontal and perpendicular to the centre line of the take-off climb surface and at a specified height above the elevation of the FATO. 4.1.17 The elevation of the inner edge shall be the elevation of the safety area at the point on the inner edge that is intersected by the centre line of the take-off climb surface, except that when a clearway is provided, the elevation shall be equal to the highest point on the ground on the centre line of the clearway. 4.1.18 In the case of a straight take-off climb surface, the slope shall be measured in the vertical plane containing the centre line of the surface. 4.1.19 In the case of a take-off climb surface involving a turn, the surface shall be a complex surface containing the horizontal normals to its centre line, and the slope of the centre line shall be the same as that for a straight take-off climb surface. That portion of the surface between the inner edge and 30 m above the inner edge shall be straight. 4.1.20 Any variation in the direction of the centre line of a take-off climb surface shall be designed so as not to necessitate a turn of radius less than 270 m. Note.— For heliports used by helicopters operated in performance class 2 and 3, it is intended that departure paths be selected so as to permit safe forced landings or one-engine-inoperative landings such that, as a minimum requirement, injury to persons on the ground or water or damage to property are minimized. Provisions for forced landing areas are expected to minimize risk of injury to the occupants of the helicopter. The most critical heliport type for which the heliport is intended and the ambient conditions will be factors in determining the suitability of such areas. Obstacle-free sector/surface — helidecks 4.1.21 Description. A complex surface originating at and extending from a reference point on the edge of the FATO of a helideck. In the case of a FATO of less than 1 D, the reference point shall be located not less than 0.5 D from the centre of the FATO. 4.1.22 Characteristics. An obstacle-free sector/surface shall subtend an arc of specified angle. 4.1.23 A helideck obstacle-free sector shall comprise two components, one above and one below helideck level (see Figure 4-2): 40. Annex 14 — Aerodromes Volume II 19/11/09 4-4 a) Above helideck level. The surface shall be a horizontal plane level with the elevation of the helideck surface that subtends an arc of at least 210 degrees with the apex located on the periphery of the D reference circle extending outwards to a distance that will allow for an unobstructed departure path appropriate to the helicopter the helideck is intended to serve. b) Below helideck level. Within the (minimum) 210-degree arc, the surface shall additionally extend downward from the edge of the FATO below the elevation of the helideck to water level for an arc of not less than 180 degrees that passes through the centre of the FATO and outwards to a distance that will allow for safe clearance from the obstacles below the helideck in the event of an engine failure for the type of helicopter the helideck is intended to serve. Note.— For both the above obstacle-free sectors for helicopters operated in performance class 1 or 2, the horizontal extent of these distances from the helideck will be compatible with the one-engine-inoperative capability of the helicopter type to be used. Limited obstacle sector/surface — helidecks Note.— Where obstacles are necessarily located on the structure, a helideck may have a limited obstacle sector. 4.1.24 Description. A complex surface originating at the reference point for the obstacle-free sector and extending over the arc not covered by the obstacle-free sector within which the height of obstacles above the level of the FATO will be prescribed. 4.1.25 Characteristics. A limited obstacle sector shall not subtend an arc greater than 150 degrees. Its dimensions and location shall be as indicated in Figure 4-3. 4.2 Obstacle limitation requirements Note.— The requirements for obstacle limitation surfaces are specified on the basis of the intended use of a FATO, i.e. approach manoeuvre to hover or landing, or take-off manoeuvre and type of approach, and are intended to be applied when such use is made of the FATO. In cases where operations are conducted to or from both directions of a FATO, then the function of certain surfaces may be nullified because of more stringent requirements of another lower surface. Surface-level heliports 4.2.1 The following obstacle limitation surfaces shall be established for a precision approach FATO: a) take-off climb surface; b) approach surface; c) transitional surfaces; and d) conical surface. 4.2.2 The following obstacle limitation surfaces shall be established for a non-precision approach FATO: a) take-off climb surface; b) approach surface; 41. Chapter 4 Annex 14 — Aerodromes 4-5 19/11/09 c) transitional surfaces; and d) conical surface if an inner horizontal surface is not provided. 4.2.3 The following obstacle limitation surfaces shall be established for a non-instrument FATO: a) take-off climb surface; and b) approach surface. 4.2.4 Recommendation.— The following obstacle limitation surfaces should be established for a non-precision approach FATO: a) inner horizontal surface; and b) conical surface. Note.— An inner horizontal surface may not be required if a straight-in non-precision approach is provided at both ends. 4.2.5 The slopes of the surfaces shall not be greater than, and their other dimensions not less than those specified in Tables 4-1 to 4-4 and shall be located as shown in Figures 4-4 to 4-8. 4.2.6 New objects or extensions of existing objects shall not be permitted above any of the surfaces in 4.2.1 to 4.2.4 except when, in the opinion of the appropriate authority, the new object or extension would be shielded by an existing immovable object. Note.— Circumstances in which the shielding principle may reasonably be applied are described in the Airport Services Manual, Part 6 (Doc 9137). 4.2.7 Recommendation.— Existing objects above any of the surfaces in 4.2.1 to 4.2.4 should, as far as practicable, be removed except when, in the opinion of the appropriate authority, the object is shielded by an existing immovable object, or after aeronautical study it is determined that the object would not adversely affect the safety or significantly affect the regularity of operations of helicopters. Note.— The application of curved take-off climb surfaces as specified in 4.1.19 may alleviate the problems created by objects infringing these surfaces. 4.2.8 A surface-level heliport shall have at least two take-off climb and approach surfaces, separated by not less than 150 degrees. 4.2.9 Recommendation.— The number and orientation of take-off climb and approach surfaces should be such that the usability factor of a heliport is not less than 95 per cent for the helicopters the heliport is intended to serve. Elevated heliports 4.2.10 The obstacle limitation requirements for elevated heliports shall conform to the requirements for surface-level heliports specified in 4.2.1 to 4.2.7. 4.2.11 An elevated heliport shall have at least two take-off climb and approach surfaces separated by not less than 150 degrees. 42. Annex 14 — Aerodromes Volume II 19/11/09 4-6 Helidecks Note.— The following specifications are for helidecks located on a structure and engaged in such activities as mineral exploitation, research, or construction, but excluding heliports on ships. 4.2.12 A helideck shall have an obstacle-free sector. Note.— A helideck may have a limited obstacle sector (see 4.1.25). 4.2.13 There shall be no fixed obstacles within the obstacle-free sector above the obstacle-free surface. 4.2.14 In the immediate vicinity of the helideck, obstacle protection for helicopters shall be provided below the heliport level. This protection shall extend over an arc of at least 180 degrees with the origin at the centre of the FATO, with a descending gradient having a ratio of one unit horizontally to five units vertically from the edges of the FATO within the 180-degree sector. This descending gradient may be reduced to a ratio of one unit horizontally to three within the 180-degree sector for multi-engine helicopters operated in performance class 1 or 2 (see Figure 4-2). 4.2.15 Where a mobile obstacle or combination of obstacles within the obstacle-free sector is essential for the operation of the installation, the obstacle(s) shall not subtend an arc exceeding 30 degrees, as measured from the centre of the FATO. 4.2.16 Within the 150-degree limited obstacle sector/sector out to a distance of 0.62 D, measured from the centre of the FATO, objects shall not exceed a height of 0.05 D above the FATO. Beyond that arc, out to an overall distance of 0.83 D the limited obstacle surface rises at a rate of one unit vertically for each two units horizontally (see Figure 4-3). Shipboard heliports Purpose-built heliports located forward or aft 4.2.17 The specifications in 4.2.20 and 4.2.22 shall be applicable for shipboard heliports completed on or after 1 January 2012. 4.2.18 When helicopter operating areas are provided in the bow or stern of a ship, they shall apply the obstacle criteria given in 4.2.12, 4.2.14 and 4.2.16. Amidships location 4.2.19 Forward and aft of the FATO shall be two symmetrically located sectors, each covering an arc of 150 degrees, with their apexes on the periphery of the FATO D reference circle. Within the area enclosed by these two sectors, there shall be no objects rising above the level of the FATO, except those aids essential for the safe operation of a helicopter and then only up to a maximum height of 25 cm. 4.2.20 Objects whose function requires them to be located within the FATO (such as lighting or nets) shall not exceed a height of 2.5 cm. Such objects may be present only if they do not represent a hazard to helicopters. Note.— Examples of potential hazards include nets or raised fittings on the deck that might induce dynamic rollover for helicopters equipped with skids. 4.2.21 To provide further protection from obstacles fore and aft of the FATO, rising surfaces with heights of one unit vertically to five units horizontally shall extend from the entire length of the edges of the two 150-degree sectors. These surfaces shall extend for a horizontal distance equal to at least 1 D of the largest helicopter the FATO is intended to serve and shall not be penetrated by any obstacle (see Figure 4-9).

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