(i) The beginning of the approach profile is represented by helicopter position E. The position of the helicopter is recorded for a sufficient distance (EK) to ensure recording of the entire interval during which the measured helicopter noise level is within 10 dB of Maximum Tone Corrected Perceived Noise Level (PNLTM). The reference flight path, E_rK_r represents a stable flight condition in terms of torque, rpm, indicated airspeed, and rate of descent resulting in a 6° approach angle.

(ii) The test approach profile is defined by the approach angle η passing directly over the station A at a height of AH, to position K, which terminates the approach noise certification profile. The test approach angle η must be between 5.5° and 6.5°.

(2) The helicopter approaches position H along a constant 6° approach slope throughout the 10 dB down time period. The helicopter crosses position E and proceeds along the approach slope crossing over station A until it reaches position K.

Section H36.5 Symbols and units. The following symbols and units as used in this appendix for helicopter noise certification have the following meanings.

FLIGHT PROFILE IDENTIFICATION—POSITIONS

Position	Description
A	Location of the noise measuring point at the flight-track noise measuring station vertically below the reference (takeoff, flyover, or approach) flight path.
C	Start of noise certification takeoff flight path.
C_r	Start of noise certification reference takeoff flight path.
D	Start of noise certification flyover flight path.
D_r	Start of noise certification reference flyover path.
E	Start of noise certification approach flight path.
E_r	Start of noise certification reference approach flight path.
F	Position on takeoff flight path directly above noise measuring station A.
F_r	Position on reference takeoff path directly above noise measuring Station A.
G	Position on flyover flight path directly above noise measuring station A.
G_r	Position on reference flyover path directly above noise measuring Station A.
H	Position on approach flight path directly above noise measuring station A.
H_r	Position on reference path directly above noise measuring Station A.
I	End of noise type certification takeoff flight path.
I_r	End of noise type certification reference takeoff flight path.
J	End of noise type certification flyover flight path.
J_r	End of noise type certification reference flyover flight path.
K	End of noise certification approach type flight path.
K_r	End of noise type certification reference approach flight path.
L	Position on measured takeoff flight path corresponding to PNLTM at station A.
L_r	Position on reference takeoff flight path corresponding to PNLTM of station A.
M	Position on measured flyover flight path corresponding to PNLTM of station A.
M_r ...	Position on reference flyover flight path corresponding to PNLTM of station A.
N	Position on measured approach flight path corresponding to PNLTM at station A.
N_r	Position on reference approach flight path corresponding to PNLTM at station A.
S	Sideline noise measuring station (note: a subscript denotes the aircraft orientation relative to the direction of flight).

FLIGHT PROFILE DISTANCES

Distance	Unit	Meaning
AF	Feet	*Takeoff Height.* The vertical distance between helicopter and station A.
AG	Feet	*Flyover Height.* The vertical distance between the helicopter and station A.
AH	Feet	*Approach Height.* The vertical distance between the helicopter and station A.
AL	Feet	*Measured Takeoff Noise Path.* The distance from station A to the measured helicopter position L.
AL_r	Feet	*Reference Takeoff Noise Path.* The distance from station A to the reference helicopter position L_r.
AM	Feet	*Measured Flyover Noise Path.* The distance from station A to the measured helicopter position M.
AM_r ...	Feet	*Reference Flyover Noise Path.* The distance from station A to helicopter position M_r on the reference flyover flight path.
AN	Feet	*Measured Approach Noise Path.* The distance from station A to the measured helicopter noise position N.
AN_r	Feet	*Reference Approach Noise Path.* The distance from station A to the reference helicopter position N_r.
CI	Feet	*Takeoff Flight Path Distance.* The distance from position C at which the helicopter establishes a constant climb angle on the takeoff flight path passing over station A and continuing to position I at which the position of the helicopter need no longer be recorded.
DJ	Feet	*Flyover Flight Path Distance.* The distance from position D at which the helicopter is established on the flyover flight path passing over station A and continuing to position J at which the position of the helicopter need no longer be recorded.
EK	Feet	*Approach Flight Path Distance.* The distance from position E at which the helicopter establishes a constant angle on the approach flight path passing over station A and continuing to position K at which the position of the helicopter need no longer be recorded.

PART B—NOISE MEASUREMENT UNDER § 36.801

Section H36.101 Noise certification test and measurement conditions.

(a) *General.* This section prescribes the conditions under which aircraft noise certification tests must be conducted and the