

Environmental Impacts on the Appearance of Disbonds in Metal Rotor Blades of Mi-2 Helicopters

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Abstract : This paper describes the analysis of construction Mi-2 helicopter rotor blades in order to determine the causes of appearance disbonds. Authors describe construction of rotor blade with impact on bonded joins and areas of water migration. They also made analysis which determines possibility of disbond between critical parts of rotor blades based on more than one hundred non-destructive inspections results. They showed which parts of the blades most likely to damage. The main source of damage is water presence.

Keywords : disbonds, environmental effect, helicopter rotor blades, service life extension

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