ANCORA

Project ID: 287094
Funded under: FP7-JTI

ANotec-COMoti Rotorcraft Acoustics initiative for preliminary acoustic flight tests for the tuning of simplified rotorcraft noise models

From 2011-07-01 to 2013-12-31, closed project

Project details

<table>
<thead>
<tr>
<th>Total cost:</th>
<th>Topic(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td>EUR 284 200</td>
<td>JTI-CS-2010-5-GRC-05-004 - Tuning of simplified rotorcraft noise models: preliminary acoustic test campaign</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EU contribution:</th>
<th>Call for proposal:</th>
</tr>
</thead>
<tbody>
<tr>
<td>EUR 213 150</td>
<td>SP1-JTI-CS-2010-05  See other projects for this call</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Coordinated in:</th>
<th>Funding scheme:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spain</td>
<td>JTI-CS - Joint Technology Initiatives - Clean Sky</td>
</tr>
</tbody>
</table>

Objective

"One of the objectives of GRC5 is to implement a tool for the minimisation of noise impact on the ground, capable of being executed on-board "on-the-fly", providing flight directives to the FMS of the helicopter. To this end reliable and fast noise predictions will have to be made, based on actual flight conditions. The envisaged semi-emperical model to be used for this purpose requires information to be derived from experimental data.

The main objective of ANCORA is to determine the transfer function between the noise measured on-board the helicopter, close to the noise sources, and the noise received on the ground by a grid of microphones, during a flight test campaign.

ANCORA will investigate the application of surface microphones on the helicopter fuselage and will subsequently use this knowledge for the flight test campaign. ANCORA will deliver a robust and reliable mobile noise measurement system, easily scalable and optimised for minimum deployment time and cost.

During the test campaign a large number of steady-state conditions and manoeuvres will be flown over a grid consisting of 31 microphones.

ANCORA will develop an advanced method for the determination of the transfer functions between on-board and ground microphones.

All results from the flight tests and data analysis (raw data, 1/3 octave spectra, transfer functions) will be made available through a data repository."

Related information

<table>
<thead>
<tr>
<th>Result In Brief</th>
<th>Fast response to noisy helicopters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Report Summaries</td>
<td>Final Report Summary - ANCORA (ANotec-COMoti Rotorcraft Acoustics initiative for preliminary acoustic flight tests for the tuning of simplified rotorcraft noise models)</td>
</tr>
</tbody>
</table>
Coordinator

ANOTEC CONSULTING SL
CALLE RECTOR JOSE VIDA SORIA 7-2
18600 MOTRIL GRANADA
Spain

EU contribution: EUR 169 575

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)

Administrative contact: Nico Van Oosten
Tel.: +34916897540
Contact the organisation

Participants

INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE TURBOMOTOARE - COMOTI
IULIU MANIU AVENUE 220D, SECTOR 6
061126 BUCHAREST 6
Romania

EU contribution: EUR 43 575

Activity type: Higher or Secondary Education Establishments

Administrative contact: Silviu Ionescu
Tel.: +40763433680
Contact the organisation

Subjects

Industrial Manufacture

Last updated on 2015-03-10
Retrieved on 2019-07-06

© European Union, 2019