

**AGENDA v 1.0 - Aircraft Certification in Icing Condition
New Requirements of the Means of Compliance (MoC)**

12-13 Nov. 2018

Centro Italiano Ricerche Aerospaziali (CIRA), Via Maiorise, snc, 81043 Capua, Italy

Mon. 12-Nov-18	Δt (min)	Opening and Key Notes	Affiliation	Discussion Lead(s)
10:00 - 10:20	20	Welcome	CIRA	P. Pirrelli
10:20 - 10:30	10	Flight near deep convective systems: TAT anomaly and jet engine damage due to ingestion of ice particles	Airline Pilot	S. Mussa
10:30 - 10:35	5	CIRA R&TD program (PRORA) and Workshop objectives	CIRA	M. Amato
10:35 - 10:50	15	Flagship Program ICE	CIRA	B. Esposito
		Manufacturers view on new needs and current gaps Chair: Richard Lewis		
10:50 - 11:35	45	Manufacturers' View on Required Improvements in SLD and Ice Crystal Means of Compliance Requirements	Manufacturers Team	R. Lewis
11:35 - 11:45	10	Airbus' perspective on priority versus gaps to cover - potential areas of collaborations	Airbus	J. Cliquet / G. Duprat
11:45 - 11:55	10	Boeing's perspective on priority versus gaps to cover - potential areas of collaborations	Boeing	E. Langhofer / C. Bosetti
11:55 - 12:05	10	Dassault's perspective on priority versus gaps to cover - potential areas of collaborations	Dassault	F. Caminade / M. Stojanowski
12:05 - 12:15	10	Flight in icing under new regulations – Leonardo perspective	Leonardo	E. Bellussi / M. Di Muzio
12:15 - 13:25	70	Lunch		
13:25 - 13:35	10	EMBRAER's perspective on priority versus gaps to cover - potential areas of collaborations	Embraer	W. Affonso
13:35 - 13:45	10	BOMBARDIER's perspective on priority versus gaps to cover - potential areas of collaborations	Bombardier	A. Pueyo (by WebEx)
13:45 - 14:05	20	Engine events and ice crystals /Rolls-Royce's approach to future MoC / EIWG task on ice crystal means of compliance	Rolls-Royce	G. Jones (by WebEx)
14:05 - 14:25	20	UTAS Perspective on Test Facility Limitations for Air Data Probes and Ice Detectors	UTAS	G. Botura
14:25 - 15:10	45	Section Round-Table	All	
		Regulatory requirements for Airplane, Helicopter, and Engine Chair: Vincenzo Brandi		
15:10 - 15:30	20	Highlights on the EASA new icing regulation and related means of compliance	EASA	V. Brandi
15:30 - 15:50	20	FAA rulemaking activities and perspective to demonstrate rules compliance in USA	FAA	T. Bond
15:50 - 16:10	20	Understanding of new icing regulations and related compliance in China	CAE-CAPE	Hu Tao
16:10 - 16:30	20	FAA-EASA harmonization efforts	FAA	T. Bond
16:30 - 16:50	20	Section Round-Table	All	
16:50 - 17:05	15	Cerimony to commomerate Ludovico Vecchione		
17:05 - 18:05	60	Visit to CIRA ground-based facilities	CIRA	B. Esposito
18:05		end of day's meeting		

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Tue. 13-Nov-18	Δt (min)	Aircraft Certification in Icing Condition - New Requirements of the Means of Compliance (part. 2)	Affiliation	Discussion Lead(s)
9:00 - 9:10	10	Opening of the day	CIRA	P. Annunziato
9:10 - 9:25	15	European Aviation Safety Research and Innovation: the EC perspective	EC	A. Gentili
		<i>Ground-based facilities: an overview of current performance, calibration methods, and limitations. - Chair: Biagio Esposito</i>		
9:25 - 9:45	20	SLD Cloud Characterization at CIRA	CIRA	B. Esposito
9:45 - 10:05	20	IC and SLD Cloud Characterization at NASA Glenn	NASA	J. Van Zante
10:05 - 10:25	20	IC and SLD Cloud Characterization at NRC	NRC	D. Orchard
10:25 - 10:45	20	SLD Capabilities in the RTA Icing Wind Tunnel	RTA	H. Ferschitz
10:45 - 11:00	15	<i>Tea/coffee break</i>		
11:00 - 11:20	20	IC and SLD Capabilities in the GKN Icing Wind Tunnel (air-data probes)	GKN	I. Stott
11:20 - 11:30	10	Cox Tunnel SLD and Ice Crystal simulation	Cox-LeClerc	K. Al-Khalil
11:30 - 11:50	20	<i>Section Round-Table</i>	All	
11:50 - 13:00	70	<i>Lunch</i>		
		<i>Physical Modelling and numerical tools: current capabilities and foreseen R&TD programs by Research Establishments. Chair: Giuseppe Mingione</i>		
13:00 - 13:20	20	CIRA IC and SLD capabilities and modeling research update	CIRA	G. Mingione
13:20 - 13:40	20	NASA IC and SLD capabilities and modeling research update	NASA	T. Ratvasky
13:40 - 14:00	20	ONERA IC and SLD capabilities and modeling research update	ONERA	O. Rouzaud
14:00 - 14:20	20	TsAGI IC and SLD capabilities and modeling research update	TsAGI	Miller Alexey
14:20 - 14:40	20	ANSYS IC and SLD capabilities and modeling research update	ANSYS	J. Stokes (by WebEx)
14:40 - 15:00	20	<i>Section Round-Table</i>	All	
		<i>Updates from funded Research programs and Icing WGs</i>		
15:00 - 15:10	10	Cleansky2: Overview of Advanced Research Activities on Icing and Perspectives	CS2 JU	A. Marino
15:10 - 15:20	10	SLD Instrumentation Test Group (Description of the effort, goals, expected publications)	NASA	J. Van Zante, B. Esposito, D. Orchard
15:20 - 15:30	10	ICE-GENESIS project	Airbus	J. Cliquet
15:30 - 15:40	10	MUSIC-HAIC project: objectives and MoC gaps to fix in the time schedule	TU-BS/ONERA	S. Bansmer / O. Rouzaud
15:40 - 15:50	10	<i>Tea/coffee break</i>		
15:50 - 16:50	60	General discussion on way forward, recommendations on future cooperation works		All
16:50		<i>end of workshop</i>		