Ingenuity in Flight.













Bombardier MSG-3 Collaboration with Western Michigan University

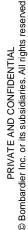
AAB Internal Annual Meeting July 20, 2017

Peter Osborne – Manager, Maintenance Programs



Proposed Agenda for WMU Meeting

- Introductions
- MSG-3 Training Background
- Review of current MSG-3 Training Material
- Opportunities



Peter Osborne is the Manager of Maintenance Engineering for Bombardier Aerospace, based in Downsview, Ontario, Canada. Peter has 38 years of aviation experience, primarily in manufacturing.

My team develops maintenance programs for all Bombardier commercial aircraft using MSG-3 methodology, defines and creates maintenance evolution/optimization requirements and works closely with American, Canadian and international regulatory authorities. I served as co-chair of the Industry Steering committee (ISC) for the Q400, CRJ700/900/1000 and currently co-chair of the ISC for the Cseries programs.

I chaired the Airlines for America International Maintenance Program Industry Group (MPIG) for 3 years and has been a member since 2006, as well as being a participant in the International Maintenance Review Board Policy Board (IMRBPB) since 2006."



- Bombardier is looking to collaborate with an academic institution in order to receive accreditation for our Maintenance Steering Group – 3 (MSG-3) training course
- Currently, Bombardier hosts four training sessions per year at various locations around the globe
- The training is held in a classroom setting, and covers four days (32 hours) of instructional material with multiple workshops over the four days
- Bombardier believes that the instructional material can be taught at an academic institution, and would be a valuable asset to an aircraft maintenance/engineering syllabus



Maintenance Steering Group (MSG-3) Background Information

- MSG began development in the late 60s
- It employs decision logic to develop scheduled maintenance
- The methodology has a task-oriented approach to maintenance that analyzes failure modes using a top down approach
- The overall goal of MSG-3 is to perform the "right maintenance at the right time"



Bombardier would like to partner with Western Michigan University

Bombardier will

- Work with Western Michigan University to produce training course accredited through the WMU that Bombardier could offer as a part of our training program
- Lecture MSG-3 to students at WMU, or train a lecturer on WMU Staff to train MSG-3 in exchange for an annual training fee

WMU will

- Have a world leading aircraft manufacturing partner in the field of aircraft maintenance
- Have the ability to offer a dedicated and unique class in aircraft maintenance program development
- Have graduates that are fully versed in maintenance programs providing more attractive opportunities for careers in aviation

Bombardier would like to offer MSG-3 training online and would support efforts by WMU to do so



Opportunities

MSG-3 Training – On Line Training

- WMU develop an on Line training program and Bombardier endorse the content
- WMU to host training
- Bombardier to market WMU on-line training on its websites and through face to face meetings ie -conferences, etc.

MSG-3 Intellectual Property

- MSG-3 course material and course are the sole intellectual property of Bombardier
- Accreditation of the course material is the sole property of WMU







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