British Institute of NDT Aerospace Group

The proposed mission and objectives of the Aerospace Group can be summarised as follows, but are captured in more detail in the table on Page 2 of this document.

Mission statement:

To promote and advance the science and practice of NDT in the aerospace industry.

Objectives:

1. To define NDT requirements to meet future aerospace industry goals.
2. To develop roadmaps for NDT technologies to guide knowledge generators (e.g. Universities, RTOs) towards aerospace industry goals.
3. To change the perception of NDT into being a solution rather than a burden, by promoting the benefits of NDT methods within the design, production and maintenance communities.
4. To promote and enable the introduction of new NDT technologies by identifying and tackling barriers, and through scientific evaluation, validation and education of manufacturing and maintenance supply chains.
5. Through collaboration with various bodies such as NANSTB, standards (BSI, ASTM etc.) and regulatory bodies, to provide a conduit into BINDT for aerospace-specific requirements.

BINDT AEROSPACE GROUP	General	New Materials and Processes	Technology	Implementation
General	BINDT mission: "TO PROMOTE AND ADVANCE THE SCIENCE AND PRACTICE OF NDT" in the aerospace industry	To promote non-destructive testing as a potential 'solution' to design (e.g. weight saving), production and maintenance requirements, rather than as a burden.	To promote the introduction of new NDT technologies through scientific evaluation, validation and education of manufacturing and maintenance supply chains.	To encourage the adoption of best practice in training, qualification and certification of both personnel and current and new technologies
Long term	To promote non-destructive characterisation as an enabling technology allowing the achievement of long-term aerospace industry objectives.	To promote the use of NDC data for process-control, concession, repair and life prediction purposes both in production process and in-service maintenance.	To anticipate future technology needs of design, production and maintenance and channel these to the R&D base (e.g. RCNDE)	To plan future implementation of new methods, especially those involving largely automated assessment.
Medium term	To identify and promote dialogue mechanisms between the NDT community and airframe/engine design, production and maintenance communities.	To promote NDT automation as a solution to production throughput requirements and shortage of trained personnel for large-area NDT.	To encourage NDT equipment suppliers to address the large amount of manual inspection required in production and maintenance.	To promote the benefits of new and/or advance NDT methods amongst the design, production and maintenance communities to create the 'market pull'.
Short term	To respond to current NDT problems, understand future problems and identify NDT opportunities in the aerospace industry.	To understand the problems encountered or predicted in large-scale manufacturing. (e.g. Tiers 1-3)	To identify and understand the barriers to introducing new technology (e.g. cost, training, validation, technique redevelopment).	To act as a conduit to standards (SBAC) and certification (PCN & NANDTB) bodies for 'grass roots' problems raised by practitioners and small NDT companies