

INCOSE TECHNICAL BOARD
LIAISON ADVISORY STATEMENTS

(INCOSE-TA-2003-010-01)

Approved by the INCOSE Technical Board on August 21, 2003

A. Name of Liaison Effort

INCOSE liaison to the American Institute of Aeronautics and Astronautics (AIAA). Direct liaison relationship is to the Systems Engineering Technical Committee (SE TC).

B. INCOSE Liaison Representative

James R van Gaasbeek

C. INCOSE point of contact and participants -

C.1 Address – 30/8D20/W6, Northrop Grumman Corporation, One Hornet Way, El Segundo, California 90245

C.2 Telephone – 310.331.5365

C.3 Email address – jim.vangaasbeek@ngc.com

D. Description of proposed standard or liaison activity

INCOSE has participated in a liaison role to the AIAA SE TC for several years. The AIAA has significant visibility within the worldwide aerospace community and is called upon from time to time to provide white papers or testimony to the United States Congress. The AIAA is also a standards-setting organization, with many of its standards being successfully promoted to become United States national standards through the American National Standards Institute (ANSI).

INCOSE has a Professional Working Agreement with the AIAA SE Technical Committee for the conduct of joint projects. The joint AIAA/INCOSE brochure, “Systems Engineering”, published in August, 1997, was the first joint project. INCOSE and the AIAA are currently jointly revising ANSI/AIAA G-043, “Guide to the Preparation of Operational Concept Documents”. The AIAA SE TC has volunteered to work with INCOSE in the revision of the INCOSE Systems Engineering Handbook to produce Version 3.

INCOSE currently is dependent upon AIAA as a formal standards issuing body for systems engineering related standards and guidebooks. The presence of an INCOSE Liaison is essential to ensuring INCOSE projects, issues, and concerns are known to AIAA members and, therefore, duplicative or conflicting efforts are prevented and joint efforts are encouraged that benefit both organizations. AIAA, like INCOSE, is member based with a Corporate membership component.

E. INCOSE's level of participation

INCOSE's liaison is also a member of the AIAA SE TC, representing his employer. The INCOSE liaison will attend two SE TC meetings a year (assuming employer funding) and lead the G-043 revision activities in his capacity as an SE TC member. The INCOSE liaison will also attend the INCOSE International Winter Workshop and the International Symposium (assuming employer funding). In addition, as appropriate, the liaison will contribute knowledge of systems engineering during the meetings to ensure INCOSE policies and positions are known, understood, and considered in the execution of projects and positions made by the AIAA SE TC.

F. Justification, including relevance to INCOSE and its members

Refer to both Sections D and E above. Through this liaison, INCOSE will partially fulfill its charter to promote systems engineering via joint activities with the AIAA. Additionally, INCOSE gains access to the standards-setting community.

G. Objectives satisfied or to be satisfied

- Performing as source of current activities affecting SE in the marketplace through joint INCOSE with the AIAA
- Significant influence on the future quality of SE activities in the aerospace community
- INCOSE recognition in AIAA-published documents
- Recognition of INCOSE as the preeminent source for SE expertise

H. Dependencies, risks, and issues

INCOSE currently is dependent upon AIAA as a formal standards issuing body for systems engineering related standards and guidebooks. Since INCOSE is not currently an authorized standards development body due to the expense and administrative support required, this relationship is an essential element of INCOSE standards participation objectives. The ability to produce standards in conjunction with AIAA would be hampered in the absence of a formal liaison relationship.

I. Anticipated schedule

Schedule for future AIAA SE TC meetings has not been set at this time. AIAA SE TC will sponsor a systems engineering session at the 2004 Space Conference, to be held in Long Beach in September, 2004. The INCOSE Liaison is one of the co-chairs.

J. Relationship to existing/planned collaborations and other standards activities

- Revision of ANSI/AIAA G-043, Guide to the Preparation of Operational Concept Documents
- AIAA participation in the revision of the INCOSE Systems Engineering Handbook
- AIAA participation in the revision of the "Framework for the Application of Systems Engineering in the Air Transportation Domain," published by the INCOSE Joint Air Transportation Working Group (JATWG).

K. Relationship to INCOSE Technical Operating Plan, if any

- INCOSE participation in the analysis, review, and development of new and revised national and international standards affecting systems engineering
- Recognition of INCOSE as the preeminent source for SE expertise

L. Expected Duration of Effort

Continuing.

M. INCOSE privileges and other benefits (e.g. price discounts, name/logo on cover, etc.)

INCOSE currently is dependent upon AIAA as a formal standards issuing body for systems engineering related standards and guidebooks. On past efforts, such as the development of the AIAA/INCOSE systems engineering brochure, INCOSE affiliation was noted for each INCOSE member of the development team and the INCOSE emblem appeared on the cover.

N. Draft Joint Working Agreement (or plan for developing), as required

N.1 Signatures

*Donna H. Rhodes, Chair
Technical Board
International Council on
Systems Engineering*

*R. Bruce Pittman, Deputy Director
Engineering & Technology Management
AIAA Technical Activities Committee*

N.2 Date – January 1997

N.3 Location of Agreement – Attached

O. Key Issues and INCOSE Advisories

None

Approved by the INCOSE Technical Board William F. Mackey, Chairman

Date: August 21, 2003



AIAA/INCOSE Professional Working Agreement January 1997

Purpose:

To promote systems engineering and related professional areas that are of mutual interest and benefit to the American Institute of Aeronautics and Astronautics (AIAA) and the International Council on Systems Engineering (INCOSE).

Scope:

The AIAA Systems Engineering Technical Committee (SETC) and the INCOSE Technical Board (TB).

Assignment:

1. Information exchange in areas of mutual interest.

The SETC and TB staff shall ensure that SETC and TB exchange:

- 1.1 Meeting minutes at the time of their regular distribution.
- 1.2 Priority tasks list, as published.
- 1.3 By mutual agreement, any other unpublished materials.

2. Initiation and implementation of joint projects.

2.1 Joint projects may be initiated by mutual agreement between Chairs of SETC and TB, or specified delegates.

2.1a In the event concurrence of the AIAA Volunteer/Professional or TB staff, or the respective full committees, is required prior to paragraph 2.1 initiation, the respective Chairs or specified delegates shall obtain such concurrence by the most rapid means practicable.

2.2 The lead association and project team member shall be determined by mutual agreement at the time of project initiation.. The lead association shall designate the project leader.

2.2a Team members may be added or changed by mutual agreement between the respective Chairs, or as otherwise mutually agreed to at project initiation.

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2.3 The project leader shall prepare and obtain project team and initiators' concurrence with the project's purpose, scope, objectives and key milestone schedule. These shall be provided to the SETC's Secretary and TB's staff, who shall maintain logs of all joint proposals.

2.4 When SETC/TB wishes to join an activity already under way, they shall accept the project purpose, scope, objectives and key milestones schedule "as is", unless otherwise negotiated. The project shall be logged as above.

2.5 Project implementation and statistics reporting shall be as agreed to by the project initiator's, or "as is" if already underway.

2.6 All project results (i.e., documentation/products) shall be shared equally by SETC and TB.

2.7 Any disputes shall be referred to the SETC/TB Chairs. The Chairs shall attempt to resolve disputes in a win - win manner.

2.8 Joint projects may be terminated by either initiator at any time. The results of work prior to termination shall be shared equally.

3. Standards Development

3.1 The TB will be invited to participate on the definition, development and publication of all systems engineering standards produced by the SETC.

3.1a On joint projects, INCOSE will be co-author with the SETC.

3.1a AIAA will retain all copyright and sales rights to published standards.

3.1b On joint projects, INCOSE will have the right to the same member discount as AIAA members.

4. Termination

4.1 This agreement may be terminated by either INCOSE or AIAA at any time, on thirty (30) days notice to the other party.

/s/ Donna Rhodes

/s/ Bruce Pittman

Donna H. Rhodes, Chair
Technical Board
International Council on
Systems Engineering

R. Bruce Pittman, Deputy Director
Engineering & Technology Management
AIAA Technical Activities Committee