



The NASA Engineering and Safety Center (Nesc) Gn and C Technical Discipline Team (Tdt): Its Purpose, Practices and Experiences

By Cornelius J. Dennehy

Bibliogov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 32 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. This paper will briefly define the vision, mission, and purpose of the NESC organization. The role of the GN and C TDT will then be described in detail along with an overview of how this team operates and engages in its objective engineering and safety assessments of critical NASA projects. This paper will then describe key issues and findings from several of the recent GN and C-related independent assessments and consultations performed and/or supported by the NESC GN and C TDT. Among the examples of the GN and C TDT's work that will be addressed in this paper are the following: the Space Shuttle Orbiter Repair Maneuver (ORM) assessment, the ISS CMG failure root cause assessment, the Demonstration of Autonomous Rendezvous Technologies (DART) spacecraft mishap consultation, the Phoenix Mars lander thruster-based controllability consultation, the NASA in-house Crew Exploration Vehicle (CEV) Smart Buyer assessment and the assessment of key engineering considerations for the Design, Development, Test and Evaluation (DDT and E) of robust and reliable GN and C systems for human-rated spacecraft. This item ships from La Vergne, TN. Paperback.



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