ISO 16290:2013-11 (E)

Space systems - Definition of the Technology Readiness Levels (TRLs) and their criteria of assessment

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Terms and definitions 1

3 Technology Readiness Levels (TRLs) 4
3.1 General 4
3.2 TRL 1 -- Basic principles observed and reported 5
3.3 TRL 2 -- Technology concept and/or application formulated 5
3.4 TRL 3 -- Analytical and experimental critical function and/or characteristic proof-of-concept 6
3.5 TRL 4 -- Component and/or breadboard functional verification in laboratory environment 6
3.6 TRL 5 -- Component and/or breadboard critical function verification in a relevant environment 7
3.7 TRL 6 -- Model demonstrating the critical functions of the element in a relevant environment 8
3.8 TRL 7 -- Model demonstrating the element performance for the operational environment 9
3.9 TRL 8 -- Actual system completed and accepted for flight ("flight qualified") 9
3.10 TRL 9 -- Actual system "flight proven" through successful mission operations 10

4 Summary table 10

Bibliography 12