

ISO 26872:2019-07 (E)

Space systems - Disposal of satellites operating at geosynchronous altitude

Contents		Page
Foreword		iv
Introduction		v
1 Scope		1
2 Normative references		1
3 Terms and definitions		1
4 Symbols and abbreviated terms		2
4.1 Symbols		2
4.2 Abbreviated terms		3
5 Geosynchronous region		3
6 Protected region		3
7 Primary requirements		5
7.1 Disposal manoeuvre planning		5
7.2 Probability of successful disposal		6
7.3 Criteria for executing disposal action		6
7.4 Contingency planning		6
8 Disposal planning requirements		6
8.1 General		6
8.2 Estimating propellant reserves		6
8.3 Computing the initial perigee increase		6
8.4 Developing basic manoeuvre requirements for a stable disposal orbit		7
8.5 Developing long-term (100-year) disposal orbit characteristics		7
8.6 Determining the manoeuvre sequence		7
8.7 Developing a vehicle securing plan		8
8.8 Developing a contingency plan		8
Annex A (informative) Tabulated values of the optimal eccentricity vector		9
Annex B (informative) Optimal manoeuvre sequences		27
Annex C (informative) Example calculations		33
Annex D (informative) Disposal strategy and analysis for sample GEO spacecraft		39
Bibliography		46