

11 05 2014; 00:32:02AM DAS Application Started
11 05 2014; 00:32:18AM Mission Editor Changes Applied
11 05 2014; 00:32:24AM Processing Requirement 4.3-1: Return Status:
Passed

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Project Data

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Objects Passing Through LEO = True
Number of Objects = 8

INPUT

Quantity = 1
Final Area-To-Mass Ratio = 0.009593 (m²/kg)
Perigee Altitude = 350.000000 (km)
Apogee Altitude = 700.000000 (km)
Inclination = 57.000000 (deg)
RAAN = -1.000000 (deg)
Argument of Perigee = -1.000000 (deg)
Mean Anomaly = -1.000000 (deg)
Released Year = 2015.000000 (yr)

OUTPUT

Perigee Altitude = -6378.136000 (km)
Apogee Altitude = -6378.136000 (km)
Inclination = 0.000000 (deg)
Lifetime = 3.485274 (yr)
Object Reentered within 25 years of Release = True
Object-Time = 3.449692 (obj-yrs)
Total Object-Time = 23.326489 (obj-yrs)
Status = Pass
Returned Error Message - Normal Processing

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INPUT

Quantity = 1
Final Area-To-Mass Ratio = 0.009732 (m²/kg)
Perigee Altitude = 350.000000 (km)
Apogee Altitude = 700.000000 (km)
Inclination = 57.000000 (deg)
RAAN = -1.000000 (deg)
Argument of Perigee = -1.000000 (deg)
Mean Anomaly = -1.000000 (deg)
Released Year = 2015.000000 (yr)

OUTPUT

Perigee Altitude = -6378.136000 (km)
Apogee Altitude = -6378.136000 (km)
Inclination = 0.000000 (deg)
Lifetime = 3.372260 (yr)
Object Reentered within 25 years of Release = True
Object-Time = 3.367556 (obj-yrs)
Total Object-Time = 23.326489 (obj-yrs)

Status = Pass
Returned Error Message - Normal Processing

=====

INPUT

Quantity = 1
Final Area-To-Mass Ratio = 0.012231 (m²/kg)
Perigee Altitude = 350.000000 (km)
Apogee Altitude = 700.000000 (km)
Inclination = 57.000000 (deg)
RAAN = -1.000000 (deg)
Argument of Perigee = -1.000000 (deg)
Mean Anomaly = -1.000000 (deg)
Released Year = 2015.000000 (yr)

OUTPUT

Perigee Altitude = -6378.136000 (km)
Apogee Altitude = -6378.136000 (km)
Inclination = 0.000000 (deg)
Lifetime = 2.201027 (yr)
Object Reentered within 25 years of Release = True
Object-Time = 2.176591 (obj-yrs)
Total Object-Time = 23.326489 (obj-yrs)
Status = Pass
Returned Error Message - Normal Processing

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INPUT

Quantity = 3
Final Area-To-Mass Ratio = 0.015429 (m²/kg)
Perigee Altitude = 350.000000 (km)
Apogee Altitude = 700.000000 (km)
Inclination = 57.000000 (deg)
RAAN = -1.000000 (deg)
Argument of Perigee = -1.000000 (deg)
Mean Anomaly = -1.000000 (deg)
Released Year = 2015.000000 (yr)

OUTPUT

Perigee Altitude = -6378.136000 (km)
Apogee Altitude = -6378.136000 (km)
Inclination = 0.000000 (deg)
Lifetime = 1.570355 (yr)
Object Reentered within 25 years of Release = True
Object-Time = 4.681725 (obj-yrs)
Total Object-Time = 23.326489 (obj-yrs)
Status = Pass
Returned Error Message - Normal Processing

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INPUT

Quantity = 4
Final Area-To-Mass Ratio = 0.014719 (m²/kg)
Perigee Altitude = 350.000000 (km)
Apogee Altitude = 700.000000 (km)
Inclination = 57.000000 (deg)
RAAN = -1.000000 (deg)
Argument of Perigee = -1.000000 (deg)
Mean Anomaly = -1.000000 (deg)
Released Year = 2015.000000 (yr)

OUTPUT

Perigee Altitude = -6378.136000 (km)
Apogee Altitude = -6378.136000 (km)
Inclination = 0.000000 (deg)
Lifetime = 1.672814 (yr)
Object Reentered within 25 years of Release = True
Object-Time = 6.570842 (obj-yrs)
Total Object-Time = 23.326489 (obj-yrs)
Status = Pass
Returned Error Message - Normal Processing

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INPUT

Quantity = 1
Final Area-To-Mass Ratio = 0.022784 (m²/kg)
Perigee Altitude = 350.000000 (km)
Apogee Altitude = 700.000000 (km)
Inclination = 57.000000 (deg)
RAAN = -1.000000 (deg)
Argument of Perigee = -1.000000 (deg)
Mean Anomaly = -1.000000 (deg)
Released Year = 2015.000000 (yr)

OUTPUT

Perigee Altitude = -6378.136000 (km)
Apogee Altitude = -6378.136000 (km)
Inclination = 0.000000 (deg)
Lifetime = 0.970890 (yr)
Object Reentered within 25 years of Release = True
Object-Time = 0.944559 (obj-yrs)
Total Object-Time = 23.326489 (obj-yrs)
Status = Pass
Returned Error Message - Normal Processing

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INPUT

Quantity = 2
Final Area-To-Mass Ratio = 0.023380 (m²/kg)
Perigee Altitude = 350.000000 (km)
Apogee Altitude = 700.000000 (km)
Inclination = 57.000000 (deg)
RAAN = -1.000000 (deg)

Argument of Perigee = -1.000000 (deg)
Mean Anomaly = -1.000000 (deg)
Released Year = 2015.000000 (yr)

****OUTPUT****

Perigee Altitude = -6378.136000 (km)
Apogee Altitude = -6378.136000 (km)
Inclination = 0.000000 (deg)
Lifetime = 0.940068 (yr)
Object Reentered within 25 years of Release = True
Object-Time = 1.806982 (obj-yrs)
Total Object-Time = 23.326489 (obj-yrs)
Status = Pass
Returned Error Message - Normal Processing

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****INPUT****

Quantity = 2
Final Area-To-Mass Ratio = 0.106413 (m²/kg)
Perigee Altitude = 350.000000 (km)
Apogee Altitude = 700.000000 (km)
Inclination = 57.000000 (deg)
RAAN = -1.000000 (deg)
Argument of Perigee = -1.000000 (deg)
Mean Anomaly = -1.000000 (deg)
Released Year = 2015.000000 (yr)

****OUTPUT****

Perigee Altitude = -6378.136000 (km)
Apogee Altitude = -6378.136000 (km)
Inclination = 0.000000 (deg)
Lifetime = 0.190068 (yr)
Object Reentered within 25 years of Release = True
Object-Time = 0.328542 (obj-yrs)
Total Object-Time = 23.326489 (obj-yrs)
Status = Pass
Returned Error Message - Normal Processing

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===== End of Requirement 4.3-1 =====

11 05 2014; 00:32:26AM Processing Requirement 4.3-2: Return Status:
Passed

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No Project Data Available

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===== End of Requirement 4.3-2 =====

11 05 2014; 00:32:28AM Requirement 4.4-3: Compliant

===== End of Requirement 4.4-3 =====

11 05 2014; 00:32:29AM Processing Requirement 4.5-1: Return Status:
Passed

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Run Data
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End of Requirement 4.5-1 =====
11 05 2014; 00:32:32AM Requirement 4.5-2: Compliant
11 05 2014; 00:32:32AM Processing Requirement 4.6 Return Status:
Passed

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Project Data
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End of Requirement 4.6 =====
11 05 2014; 00:32:36AM *****Processing Requirement 4.7-1
Return Status: Passed

*****INPUT*****

Item Number = 1

name = Laser Assembly
quantity = 1
parent = 0
materialID = 8
type = Box
Aero Mass = 0.498000
Thermal Mass = 0.498000
Diameter/Width = 0.102000
Length = 0.103000
Height = 0.019000

name = Laser Assembly
quantity = 1
parent = 1
materialID = 8
type = Box
Aero Mass = 0.498000
Thermal Mass = 0.498000
Diameter/Width = 0.102000
Length = 0.103000
Height = 0.019000

*****OUTPUT*****

Item Number = 1

name = Laser Assembly
Demise Altitude = 77.991605
Debris Casualty Area = 0.000000
Impact Kinetic Energy = 0.000000

name = Laser Assembly
Demise Altitude = 66.170402
Debris Casualty Area = 0.000000
Impact Kinetic Energy = 0.000000

*****INPUT****

Item Number = 2

name = Body with no wings
quantity = 1
parent = 0
materialID = 8
type = Box
Aero Mass = 1.370000
Thermal Mass = 1.370000
Diameter/Width = 0.100000
Length = 0.150000
Height = 0.100000

name = Body with no wings
quantity = 1
parent = 1
materialID = 8
type = Box
Aero Mass = 1.370000
Thermal Mass = 1.370000
Diameter/Width = 0.100000
Length = 0.150000
Height = 0.100000

*****OUTPUT****

Item Number = 2

name = Body with no wings
Demise Altitude = 77.992340
Debris Casualty Area = 0.000000
Impact Kinetic Energy = 0.000000

name = Body with no wings
Demise Altitude = 67.719003
Debris Casualty Area = 0.000000
Impact Kinetic Energy = 0.000000

*****INPUT****

Item Number = 3

name = Camera Lens
quantity = 1
parent = 0

materialID = 8
type = Cylinder
Aero Mass = 0.080000
Thermal Mass = 0.080000
Diameter/Width = 0.032000

name = Camera Lens
quantity = 1
parent = 1
materialID = 8
type = Cylinder
Aero Mass = 0.080000
Thermal Mass = 0.080000
Diameter/Width = 0.032000
Length = 0.039000

*****OUTPUT****

Item Number = 3

name = Camera Lens
Demise Altitude = 77.998043
Debris Casualty Area = 0.000000
Impact Kinetic Energy = 0.000000

name = Camera Lens
Demise Altitude = 71.634433
Debris Casualty Area = 0.000000
Impact Kinetic Energy = 0.000000

*****INPUT****

Item Number = 4

name = Reaction Wheel
quantity = 3
parent = 0
materialID = 54
type = Cylinder
Aero Mass = 0.007000
Thermal Mass = 0.007000
Diameter/Width = 0.012000

name = Reaction Wheel
quantity = 3
parent = 1
materialID = 54
type = Cylinder
Aero Mass = 0.007000
Thermal Mass = 0.007000
Diameter/Width = 0.012000
Length = 0.009000

*****OUTPUT****

Item Number = 4

name = Reaction Wheel
Demise Altitude = 77.995512
Debris Casualty Area = 0.000000
Impact Kinetic Energy = 0.000000

name = Reaction Wheel
Demise Altitude = 71.743183
Debris Casualty Area = 0.000000
Impact Kinetic Energy = 0.000000

*****INPUT****

Item Number = 5

name = Battery
quantity = 4
parent = 0
materialID = 54
type = Cylinder
Aero Mass = 0.048000
Thermal Mass = 0.048000
Diameter/Width = 0.018000

name = Battery
quantity = 4
parent = 1
materialID = 54
type = Cylinder
Aero Mass = 0.048000
Thermal Mass = 0.048000
Diameter/Width = 0.018000
Length = 0.065000

*****OUTPUT****

Item Number = 5

name = Battery
Demise Altitude = 77.998832
Debris Casualty Area = 0.000000
Impact Kinetic Energy = 0.000000

name = Battery
Demise Altitude = 65.782480
Debris Casualty Area = 0.000000
Impact Kinetic Energy = 0.000000

*****INPUT****

Item Number = 6

name = STIM
quantity = 1
parent = 0
materialID = 8
type = Box
Aero Mass = 0.052000
Thermal Mass = 0.052000
Diameter/Width = 0.039000
Length = 0.045000
Height = 0.021000

name = STIM
quantity = 1
parent = 1
materialID = 8
type = Box
Aero Mass = 0.052000
Thermal Mass = 0.052000
Diameter/Width = 0.039000
Length = 0.045000
Height = 0.021000

*****OUTPUT****

Item Number = 6

name = STIM
Demise Altitude = 77.995722
Debris Casualty Area = 0.000000
Impact Kinetic Energy = 0.000000

name = STIM
Demise Altitude = 71.850464
Debris Casualty Area = 0.000000
Impact Kinetic Energy = 0.000000

*****INPUT****

Item Number = 7

name = Lid Assembly
quantity = 2
parent = 0
materialID = 8
type = Box
Aero Mass = 0.187000
Thermal Mass = 0.187000
Diameter/Width = 0.102000
Length = 0.108000
Height = 0.010000

name = Lid Assembly
quantity = 2
parent = 1
materialID = 8
type = Box
Aero Mass = 0.187000
Thermal Mass = 0.187000
Diameter/Width = 0.102000
Length = 0.108000
Height = 0.010000

*****OUTPUT****

Item Number = 7

name = Lid Assembly
Demise Altitude = 77.994762
Debris Casualty Area = 0.000000
Impact Kinetic Energy = 0.000000

name = Lid Assembly
Demise Altitude = 68.805027
Debris Casualty Area = 0.000000
Impact Kinetic Energy = 0.000000

*****INPUT****

Item Number = 8

name = Wing Assembly
quantity = 2
parent = 0
materialID = 8
type = Box
Aero Mass = 0.055000
Thermal Mass = 0.055000
Diameter/Width = 0.079000
Length = 0.150000
Height = 0.025000

name = Wing Assembly
quantity = 2
parent = 1
materialID = 8
type = Box
Aero Mass = 0.055000
Thermal Mass = 0.055000
Diameter/Width = 0.079000
Length = 0.150000
Height = 0.025000

*****OUTPUT****

Item Number = 8

name = Wing Assembly
Demise Altitude = 77.992652
Debris Casualty Area = 0.000000
Impact Kinetic Energy = 0.000000

name = Wing Assembly
Demise Altitude = 0.000000
Debris Casualty Area = 0.947562
Impact Kinetic Energy = 4.371022

===== End of Requirement 4.7-1 =====