

RBOT Application: Space Fission Power Reactor Study Focused on the Optimal Number of Motors to Drive Six Reflectors, Four of Which Are Required for Success

System(s) Configuration/Choices

- Reflector Drive Motor Configurations
 - Required Choice(s)
 - 6 Moveable Reflector Drive Motor Configurations
 - 1-100% Drive Motor
 - 2-50% Drive Motors
 - 2-100% Drive Motors
 - 3-33% Drive Motors
 - 3-50% Drive Motors
 - 4-50% Standby Drive Motors
 - 4-50% Backup Drive Motors
 - 5-33% Drive Motors
 - 6-17% Drive Motors
- Reflector Type Configurations
 - Reflector Configurations
 - All Petal Reflectors
 - All Drum Reflectors
 - All Slide Reflectors

Default Input (Red)
Currently Selected (Green)

Close **Reset All To Default**

Optimal Configuration

Summary Results

Calculated Results

9.14E-7

4-50% Backup Drive Motors

4-50% Backup Drive Motors

All Drum Reflectors

All Drum Reflectors



System(s) Configuration/Choices

- Reflector Drive Motor Configurations
 - Required Choice(s)
 - 6 Moveable Reflector Drive Motor Configurations
 - 1-100% Drive Motor
 - 2-50% Drive Motors
 - 2-100% Drive Motors
 - 3-33% Drive Motors
 - 3-50% Drive Motors
 - 4-50% Standby Drive Motors
 - 4-50% Backup Drive Motors
 - 5-33% Drive Motors
 - 6-17% Drive Motors
- Reflector Type Configurations
 - Reflector Configurations
 - All Petal Reflectors
 - All Drum Reflectors
 - All Slide Reflectors

Default Input (Red)
Currently Selected (Green)

Close **Reset All To Default**

Optimal Configuration

Summary Results

Calculated Results

5.47E-7

6-17% Drive Motors

6-17% Drive Motors

All Slide Reflectors

All Slide Reflectors

A Risk-Based Analysis Using RBOT Showed that 5 Motors Were Optimal for the "4-out-of-6" System

